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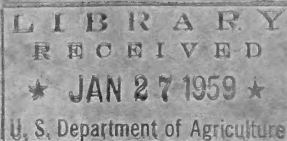
Catalog of Seeds

Compiled and Collected by

Harry E. Saier

NO. 18 DECEMBER 1958

for 1958/59



MY
FORTY SEVENTH
YEAR

TWENTY FIVE CENTS

Harry E. Saier
Dimondale - Michigan - U. S. A.

102 Champion Road—NEWPORT, W-15, VICTORIA, AUSTRALIA.
The Plateau, Te Marua—UPPER HUTT, NEW ZEALAND.



CATALOG NO. 18 FOR 1958-9



MAILING OF CATALOG.

The cost of producing my Catalog is in excess of 25 cents; therefore a charge must be made, which will be 25 cents. Customers of the past season whose purchases amount to \$2.00 will be sent the next Catalog without charge. Each issue will contain much added information on germination and growing.

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My Australian office is located at **102 Champion Road, NEWPORT, VIC.** You can mail your orders there as well as for Catalogs, remit 2 shillings for Catalog. Remittances can be made in Australian currency but I will be pleased if U.S. dollars are remitted due to the depreciation of the Australian pound and the difficulty in making use of it due to your regulations. Figure your shilling at 10 cents.

In ordering state method of mailings. It takes about 5 weeks time by surface mail. Air mail is 25 cents per half ounce first class; parcel post is \$1.62 for first 4 ounces and \$1.27 for each additional 4 ounces. This charge will be in addition to the catalog prices. At time of printing the U. S. government is in motion for higher postal rates which in turn will have to be added.

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Customers in England and those in the same currency bloc can make remittances

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I warrant to the extent of the purchase price that seeds, bulbs or plants sold are as described, within recognized tolerance. Seller gives no other or further warranty, express or implied.

HARRY E. SAIER, DIMONDALE, MICHIGAN

FLOWER, TREE AND SHRUB SEEDS



THIS LIST HAS THE LARGEST OFFERING OF TREE AND SHRUB SEED

ABELIA.

(ah-BEAL-ee-tah) Caprifoliaceae. Showy shrubs thriving in well drained soil, in protected sunny places. —Graebneriana. ABEL-8. 40¢ Deciduous sh to 10 ft; pink fls, yellow inside; China.

ABERIA: see Dovyalis.

ABIES - FIR

(AY-bih-eez) FIR. Pinaceae. Large evergreen trees, similar to the Spruces. Sow seed in the spring; stratify for 3-6 months at 40 F; shade seedlings immediately.

—amabilis. ABIE-2. 50¢ Cascade Fir. Hardy in N.E. Oz. \$1.50; lb. \$9.00.

—balamea. ABIE-4. 30¢ Balsam Fir; for large lots stratify in sand 3-4 months; sow in fall if possible; new crop seed after Nov; lb. \$6.00.

—cephalonica. ABIE-9. 30¢ Greek Fir. Greece; (IV). Oz. 50¢; lb. \$4.00.

—color. ABIE-12. 30¢ White Fir. Hardy tree; comes in several forms or varieties. Oz. 50¢; lb. \$4.00.

—lowiana. ABIE-12L. 80¢ Lvs longer; Ore to Cal. Oz. 90¢; lb. \$6.00.

—fir a. ABIE-22. 40¢ Mom Fir. Hardy Fir in (IV) zone; Japan. Oz. 75¢; lb. \$3.00.

—grandis. ABIE-20. 40¢ Grand or Giant Fir. Wash seed. Oz. 90¢; lb. \$6.00.

—homolepis. ABIE-30. 40¢ Nikko Fir. Hardy in (III) zone; Japan. Oz. 75¢; lb. \$4.00.

—lasiocarpa. ABIE-34. 40¢ Alpine Fir. Mont. seed. Oz. 85¢; lb. \$7.00.

—magnifica. ABIE-35. 40¢ Red Fir. Ore. seed; hardy in parts of the East. Oz. 90¢; lb. \$7.00.

—magnifica v shastensis. ABIE-35S. 35¢ Shasta Red Fir. Oz. 75¢; lb. \$5.00.

—mariesii. ABIE-36. 40¢ Hardy Japanese Fir in (IV) zone. Oz. 75¢; lb. \$3.50.

—pinsapo. ABIE-43. 40¢ Spanish Fir. Hardy (IV) zone. Oz. 90¢.

—procera. ABIE-46. 50¢ (nobilis) Noble Fir. Wash-N. Calif; (V). Oz. \$1.50; lb. \$9.00.

—sachalinensis. ABIE-52. 50¢ Sazhalin Fir. N. Japan; very hardy Fir.

Oz. 80¢; lb. \$5.50.

—spectabilis. ABIE-55. 30¢ Himalayan Fir. New crop seed late in the winter; stratify and plant in spring.

—veitchii. ABIE-58. 50¢ Very hardy; cones bluish purple; suggest treatment as for A spectabilis. Oz. 75¢; lb. \$3.00.

ABRONIA.

(ah-ROH-nee-ah) Nyctaginaceae. Sand Verbena. Dwarf or trailing plants with pretty white, yellow or pink fragrant flowers. Treat as annuals, sowing seed early indoor for summer bloom; they do better when planted direct in the open ground and in the S seed can be sown in the fall. Remove husk before planting; often slow in germinating; sunny, light soils best.

—umbellata gr. fl. Rose. ABRO-8. 25¢ Pretty little trailer; 10"; July-Sept; HHA; rosy pink verbena-like fls; space 18". Oz. 85¢.

—villosa. ABRO-11. 25¢ Very similar to A. umbellata; Utah. Oz. 90¢.

ABRUS.

Leguminosae. Vines of tropical regions, grown in N in GH and for ornamental seeds, soak seeds before planting.

—precatorius. ABRU-3. 50¢ Wild Liquorice. Rosary-pea. Twiner to 10 ft; red to purple fls; seeds used in making rosaries. Oz. 90¢.

ABUTILON.

Flowering Maple (ab-YEW-til-on) Flowering Maple. Tender plants, most of which are grown indoors. They are easily grown from seed which can be grown out doors during the summer and lifted in the fall; blooms in 90 days; start in March; C-22.

—hybridum. Mixed. ABUT-10X. 50¢ 1/4 Oz. \$5.00.

—maximum. Mixed. ABUT-12X. 50¢ Giant flowered strain. 1/4 Oz. \$6.00.

—vitifolium. ABUT-20. 50¢ Light blue fls; fine for the greenhouse.

When ordering the more uncommon seeds, especially those from the tropics, it is best to include a few substitutes.

A charge of 25¢ must be made for Catalog

ACACIA

(ah-KAY-shah) Leguminosae. They are widely distributed in tropical and warm regions and have many valuable uses; not hardy in the N; the hard seed coat of some species will stand being placed in the dying embers of a fire, others germinate well in fresh wood ashes or given a hot water or sulfuric acid treatment; C-22.

—**acacia**. **ACAC-2. 40¢**
One of the loveliest of all; loaded down in late winter and early sp. with masses of golden fls; tr. to 20 ft.

—**acuminata**. **ACAC-3. 35¢**
Flower heads 1/8" ac; shrub; S. Amer.

—**acuminata**. **ACAC-4. 40¢**
Hands me tr; strong raspberry odor; wood indestructible; moist sandy soil; fls in golden yellow spikes.

—**acuminata**. **ACAC-7. 30¢**
Kangaroo Thorn. Prickly sh. with very large deep golden fl-balls; 10 ft; used extensively as a large pot plant. **Oz. \$2.00.**

—**aspera**. **ACAC-8. 30¢**
Small sh to 3 ft with coarse fol; golden yellow fls.

—**Baileyana**. **ACAC-10. 30¢**
Cootamunda Wattle. Most popular of the Silver Wattles; sh or small tr; N. S. W.; silvery, feathery fol; golden fls in great profusion; cut away 1/3 growth after flowering. **Oz. 90¢.**

—**brachybotrya**. **ACAC-17. 25¢**
A tall S. Australian shrub.

—**buxifolia**. **ACAC-19. 35¢**
Sh; small globular fl-h'ds; 6 ft. **Oz. \$3.00.**

—**calamifolia**. **ACAC-20. 30¢**
Sweet Wallowa A. Thin silver lvs; small gold fls; pods to 9" long; very decorative; has a thin silvery cane-like phyllodes; (IX). 8-10 ft; spreading bush; Australia.

—**cardiophylla**. **ACAC-21. 40¢**
Wyalong Wattle. Beautiful foliage; golden fls. **Oz. \$2.00.**

—**Catechu**. **ACAC-22. 40¢**
Tr; yields black catechu.

—**cultiriformis**. **ACAC-26. 40¢**
Knife Wattle. Golden fls; 8 ft; HHSh. unique blue-grey foliage; 15 ft. **Oz. 90¢.**

—**cyanaphylla**. **ACAC-27. 30¢**
Blue-leaf Wattle. To 18 ft; magnificent tree for park or yard; W. Aust. **Oz. 50¢.**

—**cyclop's**. **ACAC-28. 40¢**
Spreading 8 ft HHSh; cream fls; summer; grown in the GH. **Oz. \$1.50.**

—**deanei**. **ACAC-29. 35¢**
15 ft. high; Australia. **Oz. \$1.00.**

—**decurrens**. **ACAC-32. 30¢**
Black Wattle. 30 ft; HHSh; spring; golden fls; fine dark green ferny fol; good tub plant; 4-6 in large panicles. **Oz. 90¢.**

—**dealbata**. **ACAC-32D. 40¢**
Silver Wattle. 50 ft. tr; most conspicuous Australian native; river banks.

—**mollis**. **ACAC-32M. 25¢**
Green Wattle. Tree to 20 ft; lvs yellowish when young; good tub plant; Aust.

Ounce \$1.00.
—**normalis**. **ACAC-32N. 40¢**
Green Wattle. Tree; glabrous lvs; Aust. deep yellow fl-heads. **Oz. \$4.00.**

—**diffusa**. **ACAC-35. 30¢**
Shrub to 6 ft; S. Australia.

—**discolor**. **ACAC-36. 40¢**
Sunshine Wattle. Yellow fls; 8 ft; HHSh.

Ounce \$5.00.
—**dummondii**. **ACAC-40. 40¢**
Finest dwarf; 4 ft; golden fls; good GH. one of the most beautiful little shrubs imaginable, with soft pinnata lvs.

—**Farnesiana**. **ACAC-48. 30¢**
Popinac. Thorny shrub; 10 ft; flowers are very fragrant; Texas; HHSh. **Oz. \$1.00.**

—**fragilis**. **ACAC-52. 75¢**

Very rare Wattle.

—**glauca**. **ACAC-50. 30¢**
—**dulcaris**. **ACAC-50. 30¢**
(Pyracantha) Hairy Pod Acacia. 1-5 ft.

—**flexifolia**. **ACAC-49. 40¢**
—**glauca**. **ACAC-51. 50¢**

—**implexa**. **ACAC-64. 40¢**
25 ft. Australian tree.

—**juiperina**. **ACAC-68. 35¢**
Silk-tree; (Albizia jub.) Seed have a seed coat dormancy and in small plantings it is best to file seed; germination spring.

Oz. 50¢; lb. \$2.00.
—**Kei-eiwei**. **ACAC-73. 40¢**
6-10 ft; Australia.

—**laeuigati**. **ACAC-70. 35¢**
e, rather rare, small Australian tree; damp places; lovely deep yellow fl-balls all summer.

—**leprosa**. **ACAC-72. 40¢**
Cinnamon W. Very pretty with cinnamon scented fol; large fluffy sulphur-yellow fls; semi-weeping; 12 ft.

—**linifolia**. **ACAC-77. 40¢**
10 ft. fl. heads in short racemes; N.S.W.

Ounce \$1.00.
—**lineata**. **ACAC-76. 40¢**
4 ft; Australia.

—**linifolia v. prominens**. **ACAC-77P. 35¢**
Golden Shower. Large pendant trusses of golden fls; 10 ft. sh; wind resistant; N.S.W.

—**longifolia**. **ACAC-80. 30¢**
A handsome species; Willow-like lvs; very beautiful spikes of rich yellow balls; fast grower; does well on sandy coastal soils; 12 ft. **Oz. 00¢.**

—**Sophorae**. **ACAC-80S. 35¢**
Shrub; 12 ft; Australia.

—**melanoxylon**. **ACAC-90. 40¢**
Black-wood. Cream fls; summer; 30 ft. one of the most valuable fancy timber trees; good for shade, too. **Oz. \$1.75.**

—**merralli**. **ACAC-91. 40¢**
Silver fol; 5 ft; Australia.

—**montana**. **ACAC-92. 30¢**
Wattle. 4-6 ft; Aust.

—**nitolica**. **ACAC-95. 40¢**
(arabica, scorpioides) Gum Arabic Tree.

—**notabilis**. **ACAC-96. 40¢**
12 ft; Australia.

—**peninervis**. **ACAC-102. 40¢**
25 ft; Australia.

—**polytrichiaefolia**. **ACAC-107. 30¢**
This is one of the best of the Acacias; tall sh; lvs deep blue; masses of drooping golden sprays; 10 ft.

—**prominens**: see **A. linifolia v. prominens**. **Ounce \$2.00.**

—**pycnantha**. **ACAC-114. 30¢**
Golden Wattle. Finest of all Acacias; shapely; large golden yellow fls; sweet scented; 15 ft; will thrive in only a few inches of soil. **Oz. \$1.25.**

—**regenis**. **ACAC-117. 30¢**
—**regenis**. **ACAC-116. 35¢**

—**regenis**. **ACAC-116. 35¢**
Shrub or small tr; 15 ft; fl-heads 1/2" ac in racemes; W. A. **Oz. \$1.00.**

—**regenis**. **ACAC-120. 40¢**
Sweet Winter Wattle. **Oz. \$1.00.**

—**subulata**. **ACAC-122. 40¢**
10 ft. sh; an uncommon species; fls small in slender sprays; N.S.W.

—**undulifolia**. **ACAC-138. 40¢**
8 ft; Australia.

—**verticillata**. **ACAC-140. 30¢**
Extremely choice, neat pot shrub or out doors; (VIII); 12 ft; lvs needle-like in whorles around slender stem; yellow-green fls-clusters in great profusion over several months.

—**vitifolia**. **ACAC-150. 30¢**
A prickly Acacia; to 10 ft; Aust.

—**Mixed**. **ACAC-X. 25¢**
A mixture of all species.

ACAENA.

Rosaceae. Ground cover type plants suitable in South and RG.

- novae-zelandiae*. **ACAE-15. 40¢**
N. Z.; creeping; fls in globular heads, 1½" ac; purple-red spines; 3" high.

ACANTHOPANAX. (ak-anth-on-PAN-nax)

Araliaceae. E. Asian shr and trs; fls in umbels followed by blackish berries; ornamental most are hardy in (IV) and (III).

- spinosum*. **ACAX-12. 35¢**
10 ft sh; arching branches; very good, hardy sh; Japan. **Oz. \$1.00; lb. \$15.00.**
—*ricinifolius*: see *Kalopanax pictus*.

ACANTHUS.

(ah-KAN-thus) **Acanthaceae** Bear's Breech. Perennials, thistle-like small shr; about 3 ft tall; fls white, rose or lilac on 18" spikes. They need heavy winter protection in the N; best in rich well drained soils. Seed sown in April will flower in August; TP; C-23.

- mollis v. latifolia*. **ACK-11. 35¢**
Broad glossy lvs; curious pale purple fls; HB; C-23; DC. **Oz. 60¢; lb. \$5.00.**

ACER- MAPLE

(AY-ser) **Aceraceae**. Street tree as well as for lumber; seed should be planted after collecting but properly stored seed can be planted the following spring; moist mineral soil for seed bed; ½ inch deep; mulch; it takes as much as 2 years in some species to germinate when seed has been stored and is dry in which case soaking seed in water for 2 days at 110 degrees F gives an even germination; best to get seed as soon as possible after gathering; wings of seed can be broken off. Most species have an embryo dormancy which can be broken by storing in moist sand at 41 F. for 3 months.

- acutum*. **ACE-1. 50¢**
Tree to 25 ft; Japan. **Oz. 90¢; lb. \$9.00.**
(*A. trifidum*) Trident M. Small Japanese tree. **Oz. 60¢; lb. \$3.50.**
—*capillipes*. **ACER-7. 40¢**
Tree to 30 ft; Japan. **Oz. 75¢; lb. \$4.50.**
—*carpinifolium*. **ACEA-9. 50¢**
Hornbeam Maple. Tr to 30 ft; Japan. **Oz. 90¢; lb. \$6.00.**
—*cinereum*. **ACER-18. 40¢**
(Negundo) 30 ft. tr; Japan; fls in racemes, 4" long. **Oz. 75¢; lb. \$4.00.**
—*crataegifolium*. **ACER-16. 50¢**
Hawthorn Maple. Tr to 30 ft; lvs bluish green; Japan. **Oz. 90¢.**
—*diabolicum*. **ACER-19. 40¢**
Tree to 30 ft; Japan. **Oz. 75¢; lb. \$5.00.**
—*Ginnala*. **ACER-26. 50¢**

AMUR MAPLE. Seed needs 1-2 months of warm weather, in seed bed, to permit bacterial growth on seed coat but in N it's best to plan on 2 years in the seed bed; seed ripe Sept-Nov; Order early. **Oz. 60¢; lb. \$3.00.**

- glabrum*. **ACER-27. 50¢**
Rocky Mt. M. Sh or tr to 25 ft. **C.S. Oz. 75¢; lb. \$4.00.**
—*grandidentatum*. **ACER-29. 40¢**
To 40 ft; tree; Wyo. to N. Mex.
—*japonicum*. **ACER-36. 50¢**
Full-moon M. Small tr or sh; fls purple in nodding corymbs; Japan. **Oz. 90¢; lb. \$6.00.**
—*Hayhachi*. **ACE-36H. 50¢**
O. 22" sh. **lb. \$6.50.**
—*micranthum*. **ACER-45. 40¢**
Shrubby tr to 20 ft; Japan. **Oz. 90¢.**
—*Mono*. **ACER-47. 30¢**
(*A. pictum*) Painted Maple. 60 ft; Japan.

Stratify seed 3-4 month at 40 F; sow in spring, gives good results. **Oz. 75¢; lb. \$3.75.**

- dissectum*. **ACEA-47D. 50¢**
Leaves cut almost to base. **Oz. 75¢; lb. \$6.00.**

—*dissectum*. **ACER-53. 50¢**
Tree to 40 ft; Japan, China. **Oz. 90¢.**

- palmatum*. **ACER-50. 50¢**
Japanese M. Sh or tr to 20 ft; pretty. **Oz. 65¢; lb. \$4.50.**

—*atropurpureum*. **ACER-59A. 50¢**
Japanese Maple. Sh or tr to 20 ft; very popular and ornamental with purple leaves. This is more profitable to grow from seed; the few seedling showing green foliage can be seen the first year and discarded. **Oz. \$1.00; lb. \$6.00.**

- dissectum*. **ACER-59D. 50¢**
Leaves divided to base into pinnately cut lobes; sow in spring; soak seed 24 hrs.

—*dissectum*. **ACER-59AD. 50¢**
Deeply cut lvs in the red variety. **Oz. 75¢; lb. \$8.00.**

- Tama-keyama*. **ACER-59T. 50¢**
—*platanoides*. **ACE-1-62. 40¢**

NORWAY MAPLE. An excellent street tree. **Oz. 50¢; lb. \$1.50.**

- rufrinerve*. **ACE-3-68. 40¢**
40 ft. tr; fls in erect racemes; Japan. **Oz. 75¢; lb. \$5.00.**

—*saccharinum*. **ACER-73. 40¢**
Soft Maple. Seed ripe in April-June 15th; seed should be planted as soon as possible; shade the seed bed.

- saccharum*. **ACER-74. 40¢**
Sugar Maple. Seed ripe about Oct; if stratified, it must not be too long as germination may occur; sow in spring.

—*Sieboldianum*. **ACER-76. 50¢**
Shrub or sm. tr; Japan. **Oz. 75¢; lb. \$7.00.**

- spicatum*. **ACER-78. 50¢**
MOUNTAIN M. Seed ripe late Sept. to Nov. If too late for fall planting treat as for *A. Ginnala*.

—*ukurunduense*. **ACER-78K. 50¢**
Oz. 75¢; lb. \$5.00.

- tataricum*. **ACER-79. 35¢**
Sh or tr to 20 ft; bright red fr in summer.

—*Tschonoskii*. **ACER-87. 50¢**
Tree to 20 ft; lvs 3" ac. **Oz. \$1.25; lb. \$8.00.**

ACHILLEA

(ak-ha-LEE-ah) **Compositae**. Yarrow. Milfoil. Hardy herbaceous perennials, easily grown in any fair soil in full sun; flowers in clusters of small heads in white yellow or pink, making good cut-flowers. Seed planted indoors in March will flower same season. They make good border plants. C-23.

- filipendulina*. **ACH-10. 25¢**
This has showy round heads; yellow; robust grower; 5 ft; HP.

—*Cloth of Gold*. **ACH-10C. 25¢**
A pretty golden fl'd var. ½ Oz. **\$1.50.**

- alba*. **ACH-10W. 25¢**
A white flowered variety.

—*Parke's Variety*. **ACH-10P. 25¢**
A deep orange variety showy in border. dry soils. ¼ Oz. **90¢.**

- Fornmuelleri*. **ACH-13. 25¢**
Hybrid between *A. abrotanoides* and *Moschata*.

—*macedonica*. **ACH-19. 50¢**
A species from Switzerland.

- Millefolium*. **ACH-20. 25¢**
Rounded heads of magenta-red fls; 2 ft; HP; ½ Oz. **90¢.**

—*rosea*. **ACH-20P. 25¢**
A pretty pink form. ¼ Oz. **70¢.**

- Ptarmica v. The Pearl.** **ACH-24P. 25¢**
Double pure white much used as a cut-flower by the florist; HP. 1/4 Oz. \$1.25.
—**Taygetea.** **ACH-33. 30¢**
A new lemon colored variety; 2-3 ft.
—**White.** **ACH-33W. 25¢**
—**Achillea Blend.** **ACH-X. 20¢**
All kinds mixed.

ACHIMENES.

- Gesneriaceae. Showy Gloxinia-like fls, native of tropical Amer; plants should be dried off after flowering; usually grown in pots.
—**Hybrids.** **ACHI-X. 75¢**
Large brilliantly colored fls; forms tubers for renewing; seed scarce.

ACIPHYLLA.

- (ak-ah-PHIL-ah) Umbelliferae. RG or the border; perennials; erect growing plants.
—**Colensoi.** **ACIP-1. 25¢**
New Zealand border plant; white fls; 5 feet; TP.

ACONITUM.

- (AK-oh-nyt-um) Ranunculaceae. Aconite. Monkshood. Herbaceous perennials; seed germinating slowly; sow out doors in May or June in shady place or they can be started indoors earlier but plants do not transplant easily; thin to 18" apart; bone meal is good fertilizer for them; try sowing the seed in the fall; C-24; D C; seed definitely requires a cold spell before germinating.

- Anthora.** **ACD-1. 30¢**
Pyrenees Monkshood. 2 ft; pale yellow.
—**Carmichaelii v. Wilsonii.** **ACD-SW. 50¢**
A variety of A. Fisheri; violet fls; now classified as above.
—**ferox.** **ACD-9. 25¢**
Has violet flowers, interior lighter color. 1/2 Oz. \$2.00.
—**lycoccionum.** **ACD-14. 25¢**
Wolf'sbane. Hardy; yellow fls; 4 ft; moist soils; HP; DC. 1/2 Oz. \$2.00.
—**Napellus.** **ACD-16. 35¢**
Blue flowers; 4 ft; HP. 1/2 Oz. 90¢.
—**palmatum.** **ACD-16P. 30¢**
Blue flowers; 4 ft; HP. Oz. \$2.00.
—**praecox.** **ACD-16R. 35¢**
Blue fls; 2" ac; Himilayan Mts; HP; DF.
—**reclinatum.** **ACD-18. 40¢**
Trailing Monkshood. 2-4 ft; greenish yellow fls; moist shady places. **PLANTS: ONLY: 60¢ ea; 3-\$1.50.**
—**uncinatum.**

Clambering Monkshood. 3-5 ft; vine-like stems; blue hood-shaped fls; showy.
PLANTS ONLY: 60¢ each; 3-\$1.50.

ACROCLINIUM: see *Helipterum roseum*.

ACROGEPHALLUS.

- sericus.** **ACRO-1. 30¢**
Shrubby compact growth; soft pale blue fls; 1-2 ft; S. Rhodesia.

ACTAEA.

BANEERRY, COHOSH
(ak-TEE-ah) Ranunculaceae.. Baneberry Cohosh. The showy terminal flowers develop into pretty white berries; they are useful in the rock garden, border or wild garden, doing best in shady places.....Sow seed in late fall or spring; slow germinating; herbaceous HP.

- arguta.** **ACTA-2. 25¢**
Very hardy; red berries; 2 ft; HP; (III).
—**pachypod alba.** **ACTA-6A. 25¢**
White Baneberry. A decid. plant, 2-3 ft; white fls followed by white showy berries; RG or shady spot; (III); HP; Ph 6-7. **PLANTS: 3 for \$1.60.**
—**rubrocapa.** **ACTA-6R. 40¢**
Red berries.

—rubra.

Red Baneberry. Herbaceous; 2-3 ft; white fls followed by showy red frs; shade or part; (III); Hp 5-6; HP. **PLANTS: 3-\$1.60.**

ACTINEA.

(ak-ti-NE-ah) Compositae. N.Am. plants related to Helenium; fls yellow; ray and disk flowers.

- fastigata.** **ACTN-3. 40¢**
Lovely small daisies in light gold, 1" ac; 4" tall; HP; (II).
—**linearifolia.** **ACTN-8. 40¢**
4-Nerved Daisy. Fl-heads 3/4" ac; HHA or HHB; 15 inches; Texas.
—**simplex.** **ACTN-9. 40¢**
Brilliant golden daisies; silvery green rosettes; 10 in.; HP; (II).

ACTINIDIA.

(ak-tin-NID-ee-uh) Dilleniaceae. Attractive shrubby vines with edible berries; sun or part shade; sow seeds in the spring.

- arguta.** **ACTD-1. 50¢**
Tara Vine. White fls, 3/4" ac; sweet fr; Manchuria. Oz. \$1.80.
—**polygama.** **ACTD-9. 35¢**
Silver Vine. Lvs 6" long, variegated with white and yellow; white fls 3/4" ac; Japan. Oz. \$1.50.

ACTINOMERIS.

(ak-tin-OM-er-is) Compositae. Tall Sunflower-like native perennials for the hardy border or wild garden; resembles *Helianthus* and *Verbesina*; grow like Sunflowers.

- alternifolia.** **ACTI-1. 30¢**
Yellow fls 1-2" ac. in many heads in corymbs; ray-flowers; 8 ft; HP.

ACTINOSTROBUS.

Cupressaceae. Shbs allied to *Callitris*; has needle-like lvs; W. A.

- glaucus.** **ACTB-12.5 0¢**
10 ft; Australia.
—**pyramidalis.** **ACTB-3. 40¢**
Compact; 10 ft sh for general planting; good also near seaside; (XI); W. A.

ACTINOTUS.

Umbelliferae. Genus of small Australian plants.

- Helianthi.** **ACTU-2. 25¢**
Flannel Flower. Silver gray fol; green tipped white sepals, surrounding tiny florets; slow to germ; space 9"; TA; grow as TA in North.

ADENANTHERA.

BEAD TREE
(ad-en-ANTH-er-ah) BEAD TREE. Leguminosae. Trees allied to *Mimosa* and grown for ornament in S or under glass in the N; soak seed in hot water.

- pavonina.** **ADDN-1. 50¢**
Red Sandelewood Tree, Peacock Flower Fence. White and yellow fls in racemes, 6" long; seeds are ornamental and used in beads; (X). 100 seeds to Oz.

ADENOCARPUS.

(ad-ee-no-CAR-pus) Leguminosae. They are grown in the GH or in the open in the S; low shrubs from S. Eu. and Asia Minor.

- decordicans.** **ADEK-1. 30¢**

ADENOPHORA.

LADY BELLS
(ad-e-NOF-oo-rah) Campanulaceae. Lady Bells. Erect perennials with fleshy roots; flowers in shades of violet; they are useful in the border being grown like *Campanula*; disturb as little as possible.

- confusa**.
Erect; fls deep blue; 1" long; 3 ft; HP.
—**ko-eana**.
—**lilifolia**.
Bluish or whitish blue fls; sweet scented;
4 ft; HP.
—**palustris**.
Fls in spike-like racemes; bluish, bell-shaped, $\frac{3}{4}$ " ac; (IV).
—**platyrrhiz**.
Bell-shaped fls in panicles; violet; 3 ft; HP.

ADIANTUM. (a-di-AN-tum)
Maidenhair Fern. Polypodiaceae. Both hardy and tender species; some are very beautiful: hardy ones best in limestone soil, moist woods.

- Trailing Maidenhair Fern**.
—**Delta Maidenhair**. Brazil; these come in many varieties; GH.
—**fragrantissimum**.
—**lunulatum**.
W. Fern. Fronds 1 ft; tropical.
—**micropinulum**.
—**pedatum**.
Maidenhair Fern. One of the most beautiful native ferns; moist shady places; 18". Plants: 50¢ each; 3 for \$1.35. Prepaid.
—**pube-cens**.
—**scutum roseum**.

ADLUMIA. (ad-LOO-mee-ah)
An attractive biennial vine thriving in a cool damp site protected from the sun and wind; plant seeds in the spring.
—**fungosa**.
—**(A. cirrhosa)** Mountain Fringe; Allegheny Vine. Fern-like leaves; white or purplish fls; fr. oblong caps; HB. $\frac{1}{2}$ Oz. \$1.00.

ADONIS. (ah-DOH-nis) Ranunculaceae. Pheasants Eye. Hardy herbaceous annuals and perennials; some make good RG plants and grow well in both sun or shade; fls solitary terminal; crimson or scarlet with a dark colored base. Sow seed of all kinds in the fall, best, or in early spring; easily grown; seed slow to germ, keep dark.

- aestivallis**.
Summer Adonis. Scarlet fls; June-July; $1\frac{1}{2}$ ft; HA; C-2. Oz. 60¢; lb. \$2.00.
—**autumnalis**.
Red Chamamile. Oz. 60¢.
—**vernalis**.
Spring A. Yellowish fls; 18"; HP; C-24; RG; L.C. $\frac{1}{4}$ Oz. \$1.50.

AESCLUSUS. HORSE CHESTNUT (ESS-kew-lus) Hippocastanaceae. Trees and shrubs; and valued for their dense shade and ornamental flowers; there are some 25 species of which only a few are grown; as a rule the seed should be planted as soon after gathering as possible; seed properly stored can be planted in the spring; germination takes place in spring.

- Hippocastanum**.
The well known Chestnut Tree: seed seed ready in Oct; order early; best for stocks for grafting the vigorous varieties. Lb. \$3.00; 10 lbs. for \$6.00.
—**turbinata**.
Japanese H. Tree to 30 ft; yellowish white fls with red spots; in panicles, 10" long; Japan; 100 seeds to lb. Lb. \$3.50.

AETHIONEMA. STONE CRESS (eth-eeh-NEE-nuh) Cruciferae. Annuals, biennials and perennials allied to Iberis and hardy up to (IV) zone; they are

dwarf plants with flowers in terminal racemes and grown in the rockery or border; May-June; light limey soil; full sun.

NOTE: Seed has been scarce and I have been out much of the time — on all species.

- armenum**.
Persian Candytuft. Nice form, compact; smothered with pink fls; blue-gray lvs; 6".
—**caerum**.
—**pulchellum**.
Rosy pink fls in heads or racemes; HP; Asia Minor.
—**saxatile**.
Small pink fls; 1 ft; HP; (V).
—**theodorum**.
Best of all Aethionema species; deep rosy red fls; 10 inches.

AGAPANTHUS Lily-of-the-Nile (ag-ah-PANTH-us) Liliaceae. Lily-of-the-Nile. Beautiful So. African bulbous plant, easily grown. Not hardy in the North; the bulbs must be stored indoors during winter. They make ideal tub plants lasting for yrs.

- africanus**, Mixed.
Mixed varieties and colors; (X).
—**campanulata Hybrid**.
This may be crossed with A. africanus and thus will produce hybrids; Calif.
—**inapertus**.
Drooping flowers.
—**longianthus**.
A new species; fls on 4 ft stems; free flowering; compact.
—**montana**.
Lovely semi-dwarf; pale blue fls.
—**orientalis**.
Large heads of blue fls; 4 ft; S. Cal; (X).
—**alba**.
A white flowered variety of the above.
—**Blue Ribbon**.
Giant blue form.

AGAVE. (ah-GAH-ve)
Tender succulents not standing frost. Does better if out doors during summer. Usually grown in pots or tubs.

- striata**.
(Wislizenii) Trunkless; lvs 18" long; fl-stem to 12 ft; Mex. Oz. \$1.50.

AGATHEA: see Felicia azurea or ameloides.

AGERATUM

(ag-er-A-tum) Compositae Herbaceous annuals having tassel-like clustered heads; blue, pink or white fls; they are easily grown, are tender in the N and must not be set outdoors till all frost danger is passed. They are useful as edging, in the front border, in porch baskets; where they are to be used for edging, a good strain should be purchased that plants be uniform; C-17.
HOUSTONINUM: This is incorrectly listed as A. mexicanum. The commonly grown Ageratums all come under this species.

BLUE MINK. **AGER-3BM. 30¢**
The new tetraploid Ageratum bearing giant trusses of fluffy powder-blue fls on strong husky plants, 5-6 in. tall, upright and compact. This is an ideal subject for edging or border use in the home garden; produces husky plants for fast sale in pots or flats. $\frac{1}{4}$ Oz. \$2.25.

- Blue Ball**.
A deep blue ball-shaped plant; compact; 9 inches. $\frac{1}{4}$ Oz. \$1.00.
—**Blue Bedder**.
AGER-3C. 20¢

Lavender-blue; compact; 4 inches; pretty.
 1/4 Oz. \$1.00.

—**Blue Cap.** **AGER-3D. 25¢**
 Rich blue; domed-shape plant; RG; extra
 nice variety; 6". 1/4 Oz. \$1.00.

—**Blue Star.** **AGER-3E. 25¢**
 Deep blue; 6"; nice edger. 1/2 Oz. 95¢.
 —**Capri.** **AGER-3CP. 25¢**

A Danish variety of the highest recom-
 mendation; it is very dwarf, about 4-6 in;
 nice blue fls. 1/4 Oz. \$1.60.

—**Dwarf Imperial, White.** **AGER-3RW. 20¢**
 Popular bedding sort; strong growth over
 1 ft. high. 1/4 Oz. 60¢.

—**Blue.** **AGER-3S. 20¢**

Strong grower; blue fls; 10". 1/4 Oz. 60¢.

—**Fairy Pink.** **AGER-3Y. 20¢**

Softest salmon-pink; edging or pots; 6".
 1/4 Oz. \$1.00.

—**King of the Blues.** **AGER-3F. 25¢**

Low compact plants; deep blue.

—**Little Dorrit.** **AGER-3G. 25¢**

Pretty deep blue; fine for edging and
 pots; they bloom all summer; 8". 1/4 oz. 60¢.

—**Market Growers Blue.** **AGER-3MG. 25¢**

Bright medium blue, an excellent cut-
 flower strain; stout stems of about 20 inches.
 Oz. 60¢; 1/4 lb. \$1.60.

—**White.** **AGER-3GW. 25¢**

A pure white variety. Oz. 80¢.

—**Midget Blue.** **AGER-3H. 25¢**

2-3 inch plant; compact; fine for edging
 where a dwarf plant is needed. 1/4 oz. \$1.00.

—**Purple Perfection.** **AGER-3J. 25¢**

Deepest blue; 9"; fine for boxes or beds.
 1/4 Oz. 50¢.

—**Silver Star.** **AGER-3K. 25¢**

Pretty dwarf white; 6". 1/4 Oz. 60¢.

—**Swanley Blue.** **AGER-3L. 25¢**

Azure-blue; thickly bunched; 8". 1/4 oz.
 60¢.

—**White Beauty.** **AGER-3P. 25¢**

Considered the best white; 7". 1/4 oz. 60¢.

—**Mixed Varieties.** **AGER-X. 20¢**

AGONIS. (ah-GON-is)
 Myrtaceae. Willow Myrtle. Aust. sh and
 trs; fls in dense heads followed by fruits;
 ornamental; best cut back hard after flower-
 ing; does well in limestone areas.

—**Parvosa.** **AGON-2. 50¢**
 Willow Myrtle. Scented white fls in
 summer. 15 ft. (TX); HSH or graceful
 small tree; good in limestone areas; cut
 back hard after flowering.

—**Juniperina.** **AGON-4. 50¢**

A good cut flower; white; 5-20 ft; HSH.

AGRIMONIA. (ag-ri-MON-ee-ah)
 Rosaceae. Agrimony. Erect plants of N
 temperate zone; fls small, yellow and in rac-
 emes; does well in part shade; HP.

—**Adonata.** **AGRI-2. 25¢**
 Yellow fls; 3 feet; Europe; HP.

—**Nilota.** **AGRI-4. 30¢**
 To 5 feet.

AGROSTIS. (ah-GROS-tis) Gramineae. A group of
 tufted annual and perennial ornamental
 grasses, useful in bouquets and in beds.

—**Robusta.** **AGRO-5. 25¢**

Cloud Grass. Dwarf and very neat; start
 early indoors for early plants; 1 ft; HA.

1/4 Oz. 20¢.

—**puchella.** **AGRO-6. 25¢**

(*Aira capillaris* v. *puchella*) 1/2 Oz. 95¢.
 Hair Grass. Cutting or drying; 1 ft; HA.

If you will use the regular order blank
 it will make it possible to keep better re-
 cord and prevents mistakes.

AGROSTEMMA. (ag-ro-STEM-ah)

Corn Cockle. Caryophyllaceae. Only two
 species; others classified here are in *Lychnis*.

—**Githago v. Mias.** **AGS-1M. 25¢**
 Out standing introduction with fls 3
 times as large as the ordinary Rose of



MILAS the New AGROSTEMMA VARIETY

Heaven. The soft lilac-pink fls are over
 2" ac and are carried on graceful willowy
 stems; splendid for cutting; very showy;
 easily grown; stands wet weather; HA; 3-4
 ft. Oz. 65¢.

—Other species: see *Lychnis*.

AIRA capillaris v. *puchella*: see *Agrostis*.

AJUGA. (aj-YEW-guh)

Labiatae. Bugle Weed. Herbaceous an-
 nuals and perennials suitable for rockery or
 border. Many blue, rose or white fls in ter-
 minal spikes in June.

—**genevensis.** **AJUG-4. 35¢**
 Blue fls; erect plants; 1 ft; HP.

AKEBIA. (ak-KEE-be-ah)

Lardizabalaceae. Hardy twining shrubs;
 they are neat and attractive vines easy from
 seed.

—**quinata.** **AKEB-2. 35¢**

FIVE-LEAF. Purple-brown fls; Korea;
 neat twining vine; hardy. c. s. Oz. 75¢; lb.
 \$3.50.

—**trifoliata.** **AKEB-3. 30¢**

(*A. lobata*) Three-Leaf. China; hardy in
 N. Oz. 60¢; lb. \$3.50.

ALBIZIA.

(al-BIZ-ee-ah) Leguminosae. Germinat-
 ion much as for *Acacia*, which see; seed
 can be supplied the year round; best to
 scarify or soak 15 minutes in sulphuric acid.

—**Julibrissin.** **ALBI-1. 30¢**

Silk Tree. Japan; 30 ft; sow in spring.

About 100 seeds to Oz. Oz. 60¢; lb. \$2.50.

—**speciosa.** **ALBI-1C. 30¢**

—**Lebbek.** **ALBI-9. 40¢**

(*Acacia* L.) Siris-tree, Women's Tongue Tr

to 50 ft; tropical; for far S. Oz. \$1.30.

—**strobilata.** **ALBI-11. 30¢**

—**stipulata.** **ALBI-15. 40¢**

—**Mixed.** **ALBI-X. 25¢**

ALECTRYON. (ah-LEC-try-on)

Sapindaceae. N. Z. and Aust. evergreen
 trees, hardy in the South.

—**excelsum.** **ALEC-3. 50¢**

Attractive foliage tree from N. Z. bear-
 ing scarlet and black seeds; 20 ft; probably
 will stand 30 degrees of frost.

ALETRIS. (AL-et-riss)
Lilaceae. Star Grass. Perennial plants with basal cluster of grass-like lvs; fls small, yellow or white in erect spikes; moist sunny places.

—**farinosa.** ALET-4. 30¢
Leaves pale yellowish green; 3 ft; fls white; bell-shaped; erect; (IV); HP.

ALEURITES.

Euphorbiaceae. Trees from the tropical regions of the East; fls in terminal panicle cymes; fr. Chestnut-like; good shade tr in far South; sow seeds where they are to grow or transplant early.

—**cordata.** ALEU-1. 40¢
Japanese Wood-Oil-tr. To 30 ft.

—**Fordi.** ALEU-3. 35¢
Tung Oil; Chinese Wood-oil. 25 ft tree.

ALISMA.

(al-LIS-muh)
Water Plantain. Alismaceae. Aquatics plants; fls in panicles; grown in ponds; germinate seed in water.

—**Plantago-aquatica.** ALIS-2. 40¢
Fls $\frac{1}{2}$ " ac; in panicles; 3 ft; (III)

ALLAMANDA.

(al-ah-MAN-dah) Apocynaceae. Ev. cl. shs with leathery foliage; ideal in conservatories or in large windows; rich soil needed; can be set outdoors during summer.

—**cathartica.** ALLA-1. 25¢
Tall climber; golden yellow fls, 3" ac; Brazil.

ALLOPHYTON.

Scrophulariaceae. Perennials native of C. America.

—**exicanum.** ALLO-3. 50¢
(Tetranema). (Penstemon mex.) A GH pl; fls $\frac{1}{2}$ " long in clusters 8" long.

ALLIUM

(AL-ee-um) Nearly all those listed are hardy perennials and are attractive in the border, and some in the rockery. Sow seed as for perennials, usually early spring; a rich sandy soil best; full sun. A few species come in dry bulbs in late summer. These are noted as (Bulbs) in following.

—**acuminatum.** ALUM-1. 50¢
Hooker's Onion. Ideal for RG; May; deep rose-purple to nearly white; 3-6 in. umbels 2-3 in. across.

—**albopilosum.** ALUM-2. 25¢
Lilac fls in umbels; 8"; dandy; (Bulbs). Bulbs in Sept; see Blub List. C-23.

—**ammiphylum.** ALUM-4. 30¢
Golden yellow fls; Europe; HP.

—**Beesianum.** ALUM-11. 30¢
Deep blue fls edged white; in nodding umbels; 18"; HP.

—**japonica.** ALUM-14. 50¢
—**cowanii.** ALUM-22. 30¢

—**Farreri.** ALUM-29. 40¢
To 1 ft; flowers reddish purple in loose umbels; China.

—**fistulosum.** ALUM-33. 25¢
Welch or Spanish Onion. White fls; use mainly for eating; HP.

—**karataviense.** ALUM-45 40¢
Most striking of all Alliums; limestone soil; very hardy; flowers whitish, rose tinged; 4-6 inch stems; C-1 or 23.

—**montanum:** see A. senescens.

—**neapolitanum.** ALUM-58. 30¢
Large 3-inch white fls; 1 ft; S. Eu; also offered in bulbs.

—**peninsulare.** ALUM-72. 25¢

Rose-purple fls in loose umbels; 1 ft; HP.

—**Porrum.** ALUM-73. 25¢
Leek. Hardy perennial Onion-like plant.

—**praecox.** ALUM-74. 25¢
White fls with bright purple mid-vein; 1 ft; HP.

—**pulchellum.** ALUM-75. 40¢
White fls with a green mid-rib; 1 ft; HP. (Seed was short this year—expect more.)

—**pyrenaicum.** ALUM-78. 25¢
White fls with a green mid-rib; 3 ft; HP.

—**roseum.** ALUM-81. 25¢
Rose fls in loose umbels; 18"; HP.

—**rubrum.** ALUM-83. 30¢
Flowers replaced by reddish bulbels; 1 ft; Rocky Mts; HP.

—**senescens.** ALUM-90. 25¢
(A. montanum) Lilac fls in many flowered umbels; 2 ft; Eu; HP.

—**Stellerianum.** ALUM-95. 30¢
Pink fls in loose umbels; 1 ft; Eu; HP.

—**tanguticum.** ALUM-99. 30¢
Bluish lilac with darker mid-rib; dense umbels; HP.

—**tibeticum.** ALUM-102. 35¢
Deep blue fls; 6"; Tibet; HP.

—**tricum.** ALUM-87. 25¢
—**Scscoenoprasum.** ALUM-87. 25¢
CHIVES. 2 ft; HP; a valuable herb; onion like flavor; used in salads. Oz. 80¢; lb. \$6.00

—**sibirum.** ALUM-87S. 40¢
Different leaves; smaller plant.

—**triquetrum.** ALUM-104. 40¢
Large white fls in loose umbels; 18"; HP.

—**tuberosum.** ALUM-105. 25¢
Leaves not hollow; July-Sept; 18"; HP.

—**unifolium.** ALUM-106. 25¢
Pink Allium. Calif; 15"; bright rose; HHP

—**ursinum.** ALUM-108. 50¢
—**Allium Blend.** ALUM-X. 25¢
All mixed.

—**ALNUS.** (AL-nus)

Alder. Betulaceae. Deciduous trs and shs, native to moist soils and cool or cold climates; momocious; sow seed early spring best.

—**Alnobetula:** see *viridis*.

—**cordata.** ALNU-3. 25¢
Italian A. Tree to 70 ft. Oz. 80¢; lb. \$4.50.

—**firma v. hertella.** ALUM-6H. 25¢
Tr to 30 ft; lvs 5" long; Japan. Oz. 60¢.

—**glutinosa.** ALNU-10. 25¢
Black A. Tr to 75 ft; Oz. 50¢; lb. \$3.00.

—**Owler.** Bark and lvs good in bitters and Wood Leek. Greenish white fls in early spring; deciduous; 6-12"; HP.

—**ONLY:** 50¢ each; 3 for \$1.40.

—**triquetrum.** ALUM-104. 25¢
Large white fls in loose umbels; 18"; HP.

—**hirsuta.** ALNU-11. 35¢
Manchurian A. Tr to 50 ft; lvs 6" long.

—**incana.** ALNU-13. 25¢
Speckled Alder. Sh or tr to 40 ft; Oz. 50¢.

—**japonica.** ALNU-14. 50¢
Tree to 70 ft; Japan. Oz. \$1.00; lb. \$4.50.

—**nepalensis.** ALNU-18. 35¢
Large quick growing shade tr; Himalayas

—**viridis.** ALNU-30. 25¢
European Green Alder. Shrub; 6 ft; the cones in racemes. Oz. 50¢; lb. \$4.00.

—**speciosa.** ALNU-30S. 35¢
Oz. 60¢.

—**ALOE.** (AL-oh)

(Liliaceae). Perennial succulent plants native of the Cape; they make nice

ornamental pot plants in the N; grow in sandy soil with a little peat and rotted

manure and small chunks of old mortar

or lime; keep on dry side; few can stand

even a light frost; never insert cutting in the soil, set butt ON soil and stake upright. Seed germinates readily in pans or flats.

- chebaudi. ALOE-16. 35¢
- coral red fls; S. Rhodesia. ALOE-17. 50¢
- comosa. ALOE-27. 50¢
- ferox. Tr; 15 ft; good pot or tub plants. ALOE-28G. 50¢
- Fosieri, Orange. ALOE-28S. 50¢
- Scarlet. ALOE-28Y. 50¢
- Yellow. ALOE-28K. 50¢
- Fosieri, Mixed.

A very beautiful and rare Aloe in shades of scarlet, red, orange and yellow; spikes are loose and open, branching and quite unlike the usual; difficult to get to seed.

- microstigma. ALOE-60. 50¢
- Whitish H-shaped markings on lvs; 10"; orange-red fls; excellent species.
- plicatilis. ALOE-72. \$1.50

This is exceptionally rare in seed. In 20 years, it has been offered only once in a German seed list.

- rubroitea ALOE-78. 50¢
- variegata. ALOE-107. 50¢

(Tiger Aloe) Attractive variegated lvs; most popular. Seeds about \$1.50 per 100.

ALONSOA. MASK FLOWER

(al-on-SOH-ah) Scrophulariaceae. Easily grown in a warm location. Sow seeds indoors in early spring and set after frost danger; for growing indoors in winter, sow in summer and set plants indoors early in the fall, before frost. C-7

- Warszewiczii. ALOE-7. 25¢
- Cinnabar or scarlet-red; 3 ft; Peru; grow as an annual in N; space 10". Oz. 80¢.
- Alonsoa Blend. ALOE-X. 25¢

ALSOPIHLA. (al-SOFF-il-uh)

Cyatheaceae. Mostly tropical species for the far South or indoor growing.

- australis. ALSO-1. 50¢
- To 20 ft; grown in the GH or in far S.

ALOYSIA: see Lippia.

ALSTONIA.

Apocynaceae. Tropical trs and shs of Malaya and S. Pacific.

- scholaris. ALSTN-6. 40¢
- Devil Tr; Pali-Mara. 60 ft; ornamental, for far S; India.

ALSTROEMERIA.

(al-stre-MEE-ri-ah) So. American plants grown from tuberous roots that are treated as bulbs. Rich soil and a sunny position needed. Seed can be planted in pots in Aug. or later, which will bloom the following summer. Try starting the seed at 70 deg. F. at first; germination variable and it ranges from 10-60 days; C-24.

- aurantiacea. ALST-1. 25¢
- Orange, spotted red; very early; 3 ft; (VI); HP. 1/2 Oz. \$1.25.
- augustifolia. ALST-1A. 25¢
- Pink, orange or flame; 3 ft; HP.
- Ligita. ALST-3. 25¢
- Pink, red and yellow fls; 2 ft; HP.
- Hybrids. ALST-5H. 25¢
- Hybrids of the above species.
- pulchra. ALST-5P. 25¢
- This has longer and narrower leaves.
- var. color. ALST-12. 35¢
- Yellow, spotted purple fls, 1" long, 1 ft.
- Alstroemeria. ALST-X. 25¢

It is best to write both the symbol number and name of seed being ordered; many orders are incomplete.

ALTHAEA.

(al-THEE-ah) Flowers in terminal erect racemes or spikes; easily grown in any good garden soil. Mostly perennial; the biennials, of which the common Hollyhock is the main subject, can be started in July for flowers the following summer; C-8.

- caunabina. ALTH-2. 35¢
- Bushy HP to 6 ft; numerous sweet scented pink fls.
- hirsuta. ALTH-3. 25¢
- Fig-leaf Hollyhock. Deep yellow fls; 6 ft; HP.
- rosea: see under HOLLYHOCK. (C-23).

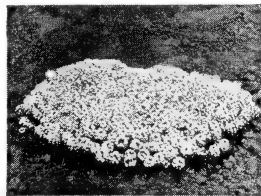
ALYSSUM

(ah-LISS-um) Annuals and perennials, trailing to 1 ft. in height and all showy; the perennials bloom very early in the spring; the annuals during early summer.

MARITIMUM: Under this species are the common annual Alyssum varieties. Botanically they are Lobularia maritima. They are all hardy annuals doing best when started early; they are used in edging or bedding, in pots and baskets as well as the rockery; all low growing and free flowering; C-21.

PROCUMBENT TYPE:

- Carpet of Snow. ALYS-15C. 20¢
- Compact strain; pure white fls; 3"; HA. Oz. \$1.30.
- Snow Cloth. ALYS-15S. 2¢0
- Very dwarf; compact; snow-white; 3". HA. 1/2 Oz. 75¢.
- Little Gem. ALYS-15G. 20¢
- Compact 6" pl; pure white. Oz. \$1.00.
- Lilac Queen. ALYS-15Q. 20¢
- Deep violet; 6"; very pretty. Oz. \$1.00.
- Violet Queen. ALYS-15V. 20¢
- Uniformly deep violet, compact, fragrant; 6"; HA. 1/2 oz. 60¢.
- Sweet Maritimum. ALYS-15M. 20¢
- Very fragrant; 1 ft; white; useful in boxes and baskets; HA. Oz. 60¢; lb. \$4.00.
- Mixed Annual Alyssum. ALYS-15X. 20¢
- Tetra Snowdrift. ALYS-15S.J. 25¢
- NEW giant flowered white. Oz. \$1.25.
- Royal Carpet. ALYS-15A. 25¢
- Procumbens; Violet Queen color on a Snow Cloth plant habit Oz. \$2.00.



ALYSSUM — Snow Cloth

ALYSSUM SPECIES:

- apesare. ALYS-1. 35¢
- Gray tufted HP to 3-4"; yellow fls in short racemes; listed as serpyllifolium. 1/2 Oz. \$1.75.
- auni. ALYS-8. 30¢
- Golden yellow fls; 6"; HP.
- argenteum: see A. murale.
- luteoens. ALYS-16. 25¢
- Bright yellow, dense panicles; 1 ft; ALST-12.
- Markgriffii. ALYS-17. 35¢
- Bright yellow; dense panicles 1 ft; HP.

Seed was short this year—expect more.)
 —**violendordifianum.** ALYS-19. 35¢
 Yellow fls; silvery fol; Bcsnia; 5"; HP.
 —**moiana.** ALYS-20. 25¢
 Showy trailer; deep yellow fls; 3"; RG.
 ½ Oz. \$1.80.

—**murale.** ALYS-21. 35¢
 (A. argenteum) Yellow tufts. Dwarf,
 15"; silvery fol; deep yellow fls in clus-
 tered heads; all summer. Oz. \$1.50.

—**orientale.** ALYS-22. 35¢
 White or pinkish; woody; 1 ft; S. Eu; HP.
 —**ovirens.** ALYS-23. 35¢
 Golden yellow fls in umbellata racemes;
 6" HP; Cent. Eu.

—**pedomontanum.** ALYS-24. 30¢
 —**repens v. Wierzbickii.** ALYS-27W. 40¢
 Erect stems; large orange fls.

—**saxatilis v. Gold Dust.** ALYS-26G. 25¢
 Golden yellow fls; 4"; April; HP; C-23.

½ Oz. 83¢.

—**argenteum.** ALYS-26A. 25¢
 Yellow fls; silvery foliage. ½ Oz. \$1.00.

—**compactum.** ALYS-26C. 25¢
 A compact strain; masses of yellow fls;
 April-May; 1 ft; HP. ½ Oz. 50¢.

—**Silver Queen.** ALYS-26S. 25¢
 Primrose fls; fine for RG; 1 ft; HP.

—**sulphureum.** ALYS-26U. 25¢
 Pretty sulphur-yellow; 1 ft; HP. Oz. \$3.00

—**spinosum.** ALYS-31. 25¢
 Silvery fol; white fls; 1 ft; HP.

—**Wierzbickii:** see A. repens.

—**Rock Garden Sps Mixed.** ALYS-34X. 25¢
 Contains perennial species suitable for
 the rockery.

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—**melancholicus.** AMAR-29. 30¢
 Compact; blood-red; very large foliage.
 —**Anaranchus B. end.** AMAR-X. 20¢
 All kinds mixed. Oz. 45¢.

AMARYLLIS.
 (am-ah-RIL-is) One species, A bella-
 donna, of which there are several varieties
 and forms. Just lately the botanical
 name has been changed to *Brunsvigia*
rosea.

Sow seed in pans; soil MUST be loose
 and granular to allow air and moisture to
 penetrate easily; plant seeds in rows, seeds
 1" apart; cover seed with ¼" loose fine soil
 which must ALWAYS be moist, never al-
 low to dry out (important); not soaked but
 MOIST; temperature 60 to 70 Fah; keep
 from direct sunlight; give some light at 3
 weeks after germination; never transplant
 till after all 3 leaflets have developed; soil
 then should contain well rotted manure;
 a mist sprayer would be ideal for growing
 these seeds.

LUDWIG STAIN. AMAR-L. \$1.00.

This strain is of superior quality, grown
 by experienced Amaryllis growers and un-
 doubtedly the best to be had. Fresh seed is
 produced about July when 95% germinat-
 ion is possible; we have special storage
 for delivery thru-out the year.

—**Pure White.** AMAL-2W. \$2.50
 This is for 50 seeds; a selected pure
 white Ludwig variety.

—**Other Colors.** AMAL-2T. \$1.75
 This is for 50 seeds; in red, dark red,
 light red, rose, salmon, orange, striped and
 mixed.

—**gracilis.** AMAL-2G. \$2.50
 For 50 seeds; miniature Amarellis; pure
 Ludwig strain.

The above 3 strains can be ordered in
 packets of 25 seeds at half the price. We
 can also supply Ludwig grown bulbs in
 early winter; write if interested.

—**Hippestrum, Mixed.** AMAL-8. 50¢
 100 seeds, \$3.00; 500, \$9.00. (Fresh) For

—**Hybrids.** AMAL-1H. 50¢
 These hybrids range in colors from deep
 seed garnet to almost white; extra choice
 seed; (15 seeds to pkt).

—**Mixed Hybrids.** AMAL-X. 40¢
 Mammoth flowers in various colors and
 blends. ½ Oz. \$4.50.

AMBERBOA.

(am-bur-BOH-ah) Compositae. Annuals
 with jaggedly cut or divided leaves and
 flower heads in purple, blue or pink, re-
 sembling Bachelor Buttons; easily grown
 from seed and should be planted where the
 plants are to grow; half hardy annuals
 native of Spain and Morocco.

—**muricata.** AMBR-2. 25¢
 Stars of pale purple with creamy cen-
 ters; easy to grow.

AMELANCHIER. (am-ee-I HNK-ee-uh)

Service-berry; June-B. R. saccae. Showy
 shr or sm. trs; hardy in N. fl. very early in
 the spring; germinates best when sown after
 ga'hering; spring sown seed will take as
 much as 2 yrs; or sow in containers to be
 left in open to freeze during winter and then
 brot indoors in spring to germinate.

—**altifolia.** EL-2. 25¢

7 ft; (III). c.s. Oz. \$2.00; lb. \$14.00.

—**asiatica.** AMEL-5. 35¢

Tr to 40 ft; lvs white tomentose beneath; (IV); Korea. Oz. 75¢.

AMELLUS. (ah-MEL-us)
Compositae. S. Af. plants with blue-ray flowers.
—**Lychnitis.** **AMES-6.** 35¢
Lavender colored Daisy; 18"; TP.

AMMOBIUM.
(am-MOH-bi-um) Compositae. Australian everlasting, tender perennials with solitary heads of yellow fls surrounded by silvery white bracts; easy; grow as an annual; fls remain white if cut early; sow in Apr. when they will flower same season; C-7.

—**a. atum.** **AMOB-1.** 20¢
Winged Everlasting. To 3 feet; white woolly; 3 ft; heads 2" across; HHA. space 9 inches. Oz. 50¢.
—**g. andiflora.** **AMOB-1G.** 25¢
Large white fls. Oz. 65¢.

AMORPHA. (am-MORF-uh)
Leguminosae. False Indigo. Grown for ornament; all are hardy in the North.
—**canescens.** **AMO-3.** 30¢
Lady Plant. Blue fls in 6" spikes; July-Aug; (III) 4 ft; HP. Oz. 60¢; lb. \$3.00.

—**fruticosa.** **AMOR-7.** 25¢
Bastard Indigo. 20 ft; May-June; fls dark purple; very hardy; (III) Oz. 50¢; lb. \$1.50.

AMPELOPSIS. **IVY**
(am-pe-LOP-siss) Tendril climbing deciduous shrubs belonging to the grape family. Grows well in any fair soil; some not hardy in the North; C-24.
—**brevipedunculata v. Maximowiczii.**

AMPL-5M. 35¢
(heterophylla) Lvs 5" long; fr blue; lvs deeply lobed; green and white, shaded and marked red or pink; excellent indoors too and stands semi-shade. Oz. 80¢.

—**quinquefolia.** **AMPL-13.** 25¢
Virginia Creeper, American Ivy. (Parthenocissus). c. s. Oz. 50¢; lb. \$2.50.
—**Veitchii.** **AMPL-12.** 25¢
Boston Ivy. C-24. c.s. Oz. 50¢; lb. \$2.75.

AMPHICOSMEA.
—**Walkerii.** **AMPH-30.** 50¢

AMSONIA.
(am-SOH-ne-ah) Apocynaceae. Perennials 1-3 ft. tall, having bluish fls followed by rather attractive milk-weed pods; for the border; easily grown.

—**illustris.** **AMSO-4.** 25¢
Sky-blue fls in dense clusters; 2 ft.
—**Montana.** **AMSO-3.** 25¢
Low PG species with pale blue sprays of small starry fls; choice.
—**Tabernaemontana.** **AMSO-2.** 25¢
Star flowers soft blue; May-June; HHP.

ANACAMPSEROS. (an-ak-KAMP-ser-uh)
—**filamentosa.** **ANA-7.** 40¢
—**rosulata.** **ANAR-11.** 40¢

AMYGDALIS communis: see **Prunus.**

ANACYCLUS.
(an-ass-SYE-klus) Compositae. A race of daisies from Med. regions related to the Pyrethrum; a few species are very desirable dwarf perennials with finely cut foliage and large white or yellow daisy-like fls with backs of the rays striped with brilliant red; sunny, stoney places; C-7.
—**maroccanus.** **ANAC-3.** 40¢

Flowers later than *A. atlanticus* and keeps a succession of red and white fls for 6-8 weeks; 2 inches.

—**Anacyclus Blend.** **ANAC-X.** 20¢

ANAGALLIS. **PIMPERNEL**
(an-ah-GAL-is) Primulaceae. Low growing annuals, biennials and perennials having pretty little star-like flowers in red, blue and white, that grow out of the axils of the leaves on hair-like stems. Very free flowering; some especially nice for the rockery; best in a loose warm soil; C-7.
—**linifolia.** **ANAG-2X.** 25¢

Mixed colors; large flowered form; July-Sept; space 6". Oz. \$2.50.
—**Scarlet.** **ANAG-2S.** 25¢

ANAPHALIS.
(an-NAP-al-iss) Compositae. White woolly perennials for the RG or border; small white fls can be used as everlastings.
—**marginata.** **ANAP-1.** 20¢
Upright; 16"; dense gray woolly pl; in masses of pearly white fls.

ANCHUSA

(an-KE U-suh) Boraginaceae. Excellent perennials for summer border in a sunny place; hardy; easily grown, flowering in July-August or even later. Comes mainly in blue shades; best in a good soil with plenty of old manure. Be careful not to damage tap root when transplanting; C-2.
—**azurea, Dropmore Variety.** **ANCH-2D.** 20¢
Lovely bright blue; 4 ft; HP; C-23. Oz. 70¢.

—**Lissadell.** **ANCH-2L.** 30¢
Larger fls than Dropmore and deeper blue; HP. Oz. 90¢.
—**Opal.** **ANCH-2P.** 25¢

Same but a lighter blue; HP.
—**capensis, Blue Bird.** **ANCH-4B.** 25¢
Vivid indigo-blue, compact; 18"; HA. space 18"; C-23. Oz. 80¢.

—**Pink Bird.** **ANCH-4P.** 25¢
A new pink colored variety; very showy; compact habit; very light rose. 1/2 Oz 60¢
—**myosotidiflora:** see *Brunnera macrophylla*
—**riparia.** **ANCH-9.** 25¢
Bright to dark blue fls; 2 1/2 ft; HHP.

—**officinalis.** **AUCH-7.** 30¢
Bugloss. HB; 2 ft; garden herb.
—**Anchusa Blend.** **ANCH-X.** 20¢
Both annual and perennial kinds mixed.

ANDROMEDA. (an-DROM-ed-uh)
Bog-Rosemary. Ericaceae. Low ev. gr. sh; grown in rockery or border; very hardy; requires acid soil.
—**japonica:** see under *Pieris*. **ANDM-8.** 40¢
—**polifolia.** **ANDM-8.** 40¢
To 1 ft; root stalks creeping; fls 1/4" long. Oz. \$1.00.

ANDROSACA. **ROCK JASMINE**
(an-DROS-ah-see) Primulaceae. True alpine annuals and perennials for the rockery or low border; many require special handling in the alpine or rock garden. Leaves usually tufted or in rosettes and often woolly; flowers are small, in red, pink or lavender, usually borne in rather flattened rounded clusters. They require a dry, gritty, well drained soil but not too suffer from drought; seed may remain in the soil for over a year. Try freezing for 2 weeks, then place at 50 deg F; C-23-24.
—**carnea v. brigantiac.** **ANDR-3B.** 40¢
Has narrow lvs and nice white fls; HP.

—**pyrenaica.** **ANDR-17.** 50¢
Choice alpine house species; minute

- domes studded with white flowers; 1"; HP.
 —**septentrionalis** **ANDR-20** 50¢
 To 8"; HA; white or pink fls in umbels
 —**subumbellata** **ANDR-20S** 35¢
 Sprays of small white fls; 5"; HB.

ANELLMA.

(an-NELL-mah) Compositae.

- Aequinoctiale** **ANEL-1** 40¢
 Perennial; slender erect stems 2-3 ft;
 mauve fls in terminal panicles; very dainty;
 S. Rhodesia.

ANEMONE

(ah-NEM-oh-nee) Ranunculaceae. They are attractive perennials blooming in the spring, summer and autumn; fls come in white, rose, red and purple; they thrive in a rich sandy loam, many doing well in shade; they make beautiful plants in the border and some in the rockery. The florist species are *A. coronaria*, *fulgens* and *hortensis*; these come in single and double flowers and are grown mainly as fall and winter flowers, much as one would grow *Freesias*; these are not real hardy; all *Anemones*, except *A. nemorosa*, love a lime soil and it is necessary for good fls; they will not tolerate an acid soil.

A. CORONARIA: Poppy-flowered *Anemone*. This is the popular florist *Anemone*. C-24.

ST. BRIGID:

- de Cain, Mixed** **ANEM-10DC** 25¢
 Single flowers. ¼ Oz. 50¢.
 —**Monarch Strain** **ANEM-10M** 25¢
 A new strain in the best of colors.
 —**His Excellency** **ANEM-10SE** 25¢
 Rich velvet-red, with attractive white ring around center. ¼ Oz. 60¢.
 —**Single Giants** **ANEM-10N** 25¢
 Large flowered strain in many colors.
 —**Hollandia** **ANEM-10H** 25¢
 Very pretty single red with dark centers. ¼ Oz. 50¢.
 —**St. Brigid** **ANEM-10S** 25¢
 True Irish strain; double brilliant flowers; (VII). ¼ Oz. 60¢.
 —**Creagh Castle Strain** **ANEM-10CC** 25¢
 Improved strain of St Brigid; outstanding. ¼ Oz. 90¢.
 —**Mr. Fokker** **ANEM-10SF** 25¢
 Rich deep purple-blue, paler toward center; most prolific of these varieties in cold weather. ¼ Oz. 60¢.
 —**The Governor** **ANEM-10SG** 30¢
 Most vivid of all varieties. a pillar-box red; full and good size. ¼ Oz. 50¢.
 —**Mixed** **ANEM-10X** 25¢
 Blend of the above varieties for greenhouse growing. ¼ Oz. 50¢.

OTHER ANEMONE SPECIES:

- alpi** **ANEM-3** 30¢
 Cream inside, purplish out; 3" ac; 18"; fine for bare stony soil; tuberous rooted; HP.
 —**sulphurea** **ANEM-3S** 30¢
 A yellow flowered form.
 —**barbulata** **ANEM-7** 30¢
 —**biflora** **ANEM-8** 30¢
 —**canadensis** **ANEM-10** 35¢
 (*A. sylvestrica*; *dichotoma*) Meadow A. 2 ft; solitary white fls, 2" ac.
 —**cyanea** **ANEM-11** 30¢
 Candle *Anemone*. Greenish white clusters; 3 ft; HP.
 —**demissa** **ANEM-16** 30¢
 White with purple outside; in clusters; August-Sept; 1 ft; HP.
 —**Drummondii** **ANEM-17** 30¢
 Cream fls, blue outside; moist soils; 6"; RG; HP.

—**globosa** **ANEM-19** 30¢
 Red to bronze-green fls; July-Sept; 10"; HP.

- rubra** **ANEM-19R** 50¢
 (multifida) Red flowered variety.
 —**Halleri** **ANEM-22** 30¢
 Lilac fls, 2½" ac; June; sun; 6 inches.
 —**Halleri** **ANEM-21** 30¢
 For a sunny spot; lilac fls; June; RG; 6".
 —**japonica alba** **ANEM-21A** 25¢
 —**hybrids** **ANEM-21H** 25¢
 Autumn flowering; white tinged rooe; 3 ft; HHP; C-24.

—**Lesseri** **ANEM-28** 30¢
 Dwarf form; fern-like lvs; deep pink fls; Aug-Sept; sun; HP.

—**magellanica** **ANEM-32** 50¢
 White or yellow fls; not a true species.

—**Giant Form** **ANEM-32G** 30¢

—**montana** **ANEM-34** 30¢

Dark violet, drooping fls; 6"; H P.

—**multifida** **ANEM-35** 30¢

—**myosotidiflora**: see *Brunnera macrophylla*.

—**nicricens** **ANEM-38** 30¢

Purplish black fls; 1 ft; HP.

—**occidentalis** **ANEM-39** 30¢

White or purplish fls, 2" ac; May; 18"; HP.

—**patens** **ANEM-44** 30¢

—**nuttalliana** **ANEM-44N** 30¢

Purple fls; very early in spring; 8"; HP.

—**pratensis** **ANEM-45** 30¢

Dark purple fls; 1 ft; HP.

—**PULSATILLA** **ANEM-46** 25¢

These form a tap root and not a corm; germinates slowly up to 3 months; be sure to add lime to soil.

Violet fls; April; lime; fine spring fls; 1 ft; HP; popular species; sow in fall to germinate in spring; C-24.

—**amoena** **ANEM-46E** 30¢

—**alba** **ANEM-46A** 25¢

A creamy white form of Pasque Flower.

¼ Oz. \$1.80.

—**australis** **ANEM-46T** 25¢

—**montana** **ANEM-46M** 25¢

—**pate's** **ANEM-46P** 25¢

—**Gayeri** **ANEM-46G** 25¢

—**Mallenderi** **ANEM-46L** 25¢

—**Violet Blue** **ANEM-46V** 25¢

¼ Oz. \$1.80.

—**ranunculoides** **ANEM-49** 40¢

Yellow Wood A. Golden yellow, solitary fls, 1" ac; Apr-May; 8"; Siberia.

—**rivularis** **ANEM-51** 30¢

White tinged blue; 1½" ac; 3 ft; India.

Only *Anemone* that enjoys moist waterside position; HP.

—**slavica** **ANEM-54** 30¢

Collected in Austria.

—**silvestris** **ANEM-56** 30¢

Pure white; fragrant, nodding fls; May-June; 18"; tuberous rooted; HP.

—**virginiana** **ANEM-60** 30¢

White or greenish; fine for meadows;

June-Aug; 3 ft; HP.

—**vitifolia** **ANEM-61** 30¢

Grape-leaf A. White fls 2" ac. in cymes;

July; HP.

—**Anemone Blend** **ANEM-X** 25¢

Mixture of all kinds.

ANETHUM.

(AN-neth-um) Umbelliferae. Annuals and biennials, one of which (*Dill*) is a popular garden herb.

slow to germinate, sow few radish to break and show row.

—**graveolens** **ANET-5** 20¢

DILL 3 ft; annual. Oz. 35¢; lb. \$1.40.

ANGELICA.

(an-GEI-ec-ah) Umbelliferae. Perennials with white or greenish fls; for borders for bold effect.

—Archangelica.

Corn Salad. Slow too germinate; sow few radish to break the soil and show row. Sow seed as fresh as possible; young stems in May-June for candying and a second crop in Aug-Sept; young stems can be use in salads; lvs make excellent aromatic tea; cook with apples and rhubarb; excellent bee plant when in flower; 8 ft; HB; will be HP if cut after flowering.

ANGOPHORA.

(an-GO-for-ah)

Myrtaceae. Apple or Gum Myrtle. Trs and shrubs; similar to Eucalyptus; fls white in terminal corymbs followed by fruits; E. Australia; profuse bloomers.

—lanceolata.**ANGO-10. 40¢**

Sydney Red Gum. To 50 ft; smooth pinkish bark and curiously twisted limbs; (IX). white fls; rapid grower.

ANIGOZANTHOS. (an-ig-loh-ZANTH-os)

Amoryllidaceae. Odd Australian perennials; grown in GH in N; hardy in S.

—flavida.**ANIG-2. 40¢**

Anthems entirely red, otherwise much like 4.

—Manglesii.**ANIG-4. 50¢**

Kangaroo Paws. Light soil; sun; summer moisture; red and green 'paws'; good to cut; (VIII); best of all species; 3 ft; HHP; C-24.

—viridis.**ANIG-12. 40¢**

2 ft; Australia

ANISE: see *Pimpinella Anisum*.

ANNONA.

(an-NON-nah) Annonaceae. Tropical trs. and shrubs grown for their delicious edible fruits; fls are an odd color, solitary or in clusters; fruits large and fleshy; TTr.

—muricata.**ANNO-5. 40¢**

Soursoap, Guanabana. 2 ft ev. tr; yellow fls 4" long; fruits; tropical; 65 sd. to oz. Oz. \$1.20.

—squamosa.**ANNO-9. 30¢**

SUGAR APPLE, SWEETSOAP: decid. tr. to 30 ft. (skwam-MOH-suh); 100 sds to oz. —**reticulata.**

ANNO-7. 50¢

Bullock's Heart.

ANODA.

(an-NOH-duh) Malvaceae. Mostly annuals, either grown outside for fall flowers or under glass.

—lavateroides v. Opelcup.**ANOD-4 P. 20¢**

Continuous bloomer; June-Nov. blue and pink fls; space 18"; 3 ft; HA; fast grower.

—Snowdrop.**ANOD-4 S. 20¢**

Shining snow-white; 30"; profuse bloomer; HA.

ANTENNARIA.**PUSSY TOES**

(an-te-NAY-ri-ah) Compositae. Everlasting. Perennials used in the wild or rock garden, also much used as dried flowers in winter bouquets. Best in dry soil, and easily grown. Flowers in heads and the leaves are white-woolly clustered at the base.

—aprica**ANTA-2. 25¢**

Dense low mats; white or pink heads; 5"; HP.

—rosea.**ANTA-17. 30¢**

Foliage distinctly white and woolly; fls rose; 18"; HP.

ANTHEMIS.

(AN-the-mis) Compositae. Golden Marguerite. Very free flowering perennials with daisy-like flowers, blooms June-Sept.

It does well on dry sandy soils and in full sun. Sow seeds in late April or early May, outdoors, or they can be started earlier indoors. Thin plants in the garden to 10" apart; they are profuse bloomers.

—**arabica:** see *Cladanthus arabicus*.

—Coia.**ANTH-5. 25¢****—Kelwayi.****ANTH-8. 20¢**

Pure golden yellow; July to frost; 2½ ft; HP; C-23. Oz. 40¢.

—montana.**ANTH-9. 25¢**

Charming species; pure white fls; 1 ft.

—nobilis v. Perry.**ANTH-10 L. 20¢**

Pretty lemon-yellow selection; 1 ft; HP.

—simplex.**ANTH-10S. 25¢**

Larger flowers than the type.

—Sancii-Johannis.**ANTH-13. 20¢**

Deep orange fls; 3 ft. ¼ oz. 70¢.

Gray-green lvs. Oz. \$1.50; lb. \$12.00.

—tinctoria.**ANTH-14. 20¢**

Golden yellow ray-fls; fine cut; 2½ ft.

—Perry's Variety.**ANTH-14P. 25¢**

Bright lemon-yellow; 2 ft; HP. Oz. 80¢.

—Anthemis Mixed.**ANTH-X. 20¢****ANTHERICUM.**

(an-THER-i-kum) Liliaceae. Tuberous-rooted herbs of the Lily Family having racemes of small white lily-like flowers and long narrow grass-like leaves. In the North they require winter protection; they make fine greenhouse plants or for use in lawn vases during the summer; requires plentiful supply of water when in bloom; 50-60 deg. Fah in winter; C-35.

—Liliago.**ANTE-3. 30¢**

Neat species; small white fls; 18"; HP.

—undulatum.**ANTE-5. 30¢**

White fls in racemes; easy; native S. Af. 1 ft; HHP.

ANTHOLYZA aethiopica: see *Chasmantha*.

ANTHYLLIS.

(an-THILL-iss)

Leguminosae. Per. plants from Eu. and Asia; fls in dense Clover-like heads; ornamental.

—montana v. carninea.**ANTY-5C. 50¢**

1 ft; white silky lvs; pink fls; Alps; HP.

ANTHRISCUS.

(an-THRISK-us)

Umbelliferae Grown for its lvs. used in salads; Chervil being the main species; the tuberous Chervil is Chaerophyllum.

—Ce=efolium**ANTS-2. 25¢**

Salad Chervil. Hardy annual; 2 ft; grow for sp. and fall crops; in S the fall crop can be held over winter; space 10"; grow same as Carrots; excellent for garnishing. Oz. 50¢; lb. \$2.00.

ANTIGONON.

(an-ti-GON-on) Polygonaceae. A tendrill climber grown as a GH vine in the N but a popular hardy climber in the S where it has a long blooming season; in the GH it requires plenty of light; not too much root room; keep roots dry during rest in the winter.

—leptopus.**ANTI-1. 25¢**

Climber to 40 feet; rose-pink flowers; Mexico; tender; (IX); (I.E.P-toh-pus) Oz. \$2.00. 250 seeds to oz; best from seed.

ANTIRRHINUM

Snapdragon. Scrophulariaceae. Very popular cut-flowers, both in the garden and in the greenhouse. Start indoors as early as Feb. for an early start or as late as April; the seed may be slow in germinating. For winter fls start in August and get seedlings into pots

as soon as possible; pinch off terminal bud at the start to get several stems growing. C-10; (an-tehr-RYE-mum).

TETRA SNAPS: Spikes 1 ft. long; strong husky growth; ideal for greenhouse growing; popular with market growers; C-10.

KING'S COURT

—**King's Court.** ANTR-9KC. 40¢
F2 Hybrid, extremely early blooming, being 10-14 days earlier than the regular majus gr. fl. or the Tetras. Also taller, stronger stemmed and with many more and larger blossoms more closely spaced on the stem; color range is complete with clearest of whites, yellow, soft and strong pinks, rose, crimsons and scarlets, mingled with many intermediate shades. ¼ Oz. \$2.00.

—**Candlelight.** ANTR-9L. 35¢
Pure yellow.
—**Crimson.** ANTR-9C. 35¢
Velvety crimson ¼ Oz. \$1.25.
—**Pink Shades.** ANTR-9P. 35¢
Light pink to mid-rose. ¼ Oz. \$1.25.
—**Rose Shades.** ANTR-9Z. 35¢
Fine deeper shades of rose. ¼ Oz. \$1.25.
—**Sky Scraper.** ANTR-9K. 35¢
Tallest growing of all Snapdragons, in a glorious blend of pastel shades. ¼ Oz. 75¢.
—**Sunset Hybrids.** ANTR-9S. 35¢
Vary from light primrose-yellow flushed pink to rosy orange. ¼ Oz. \$1.25.
—**White.** ANTR-9W. 35¢
Light creamy white changing to pure white with age. ¼ Oz. \$1.25.
—**Burpee Blend Tetras.** ANTR-9X. 30¢
A superfine extra giant flowered blend; blooms extremely large and a little frilled, containing a wide range of fine colors. ¼ Oz. 75¢.

ALL RUST RESISTENT STRAINS

MAJUS GRANDIFLORUM: Tall, large flowered, making excellent garden cut-flowers; strong growers.
—**Firefly.** ANTR-1F. 25¢
Crimson and yellow; very popular color.
—**Naramek Strain Mixed.** ANTR-1N. 25¢
A striking new strain in two-toned combinations. ½ Oz. 85¢.
—**Primrose Queen.** ANTR-1Q. 25¢
Very large fls in a soft primrose color.
—**Prince of Orange.** ANTR-1P. 25¢
A popular orange color; excellent cut.
—**Queen Victoria.** ANTR-1V. 30¢
The best pure white; necessary in all lots.
—**The Sentinel.** ANTR-1S. 25¢
Bright orange-scarlet with white throat.
—**Vulcan.** ANTR-1L. 25¢
A very bright crimson-scarlet with dark foliage; pretty.
—**Yellow King.** ANTR-1K. 25¢
Best pure rich yellow.
—**Blend of Above Varieties.** ANTR-1X 25¢
Trade packet: 50¢; Oz. \$2.00.

MAJUS NANUM.

—**Blend of Varieties.** ANTR-4X. 25¢
Large flowered, semi-dwarf. ½ Oz. \$1.30.
MAJESTIC: This is probably the best type for growing out doors.
—**Choice Mixed.** ANTR-5X. 25¢
½ Oz. \$1.00.

MAXIMUM: Tall giant flowered spikes; extra good for cut flowers; rust resistant.
—**Appleblossom.** ANTR-2A. 25¢
Soft rose suffused with yellow.
—**Campfire.** ANTR-2C 25¢

Bright scarlet.
—**Cattleya.** ANTR-2T. 25¢
Soft silvery rose-lilac with a golden yellow tip.
—**Copper King.** ANTR-2K. 25¢
A nice copper color; long spurs.
—**Gotelind.** ANTR-2G. 25¢
Bright orange.
—**Indian Summer.** ANTR-2S. 25¢
Coppery scarlet turning to pure copper.
—**Yellow Giant.** ANTR-2Y. 25¢
Giant rich yellow flowers.
—**FAIRY SPELL.** ANTR-2FS. 30¢
NEW art shades, marbled and blotched with dark lip.
—**Blend of Above Varieties.** ANTR-2X. 25¢
Any of above: ¼ Oz. 60¢; Oz. \$2.00.

—**CAROUSEL.** ANTR-5C. 35¢

Grown from F1 plants, this new blend offers a wide color range and exceptional hybrid vigor for superior garden performance. Plants are early, fast growing, uniform in height, 30 inches and fls spaced on long stems. 1/8 Oz. \$1.00.

FORCING VARIETIES:

For GH growing, seed should be sown Oct. 1-10, to bloom about 1st of April when grown single stemmed; bench about Nov. 1st; a pinched crop is 2 weeks later; seed can be sown, also, to Nov. 1st for later crop; plants on ground beds are 2 weeks later than on benches. Our new strains are far superior to the old strains.
—**Afterglow.** ANTR-7A. 30¢
A rich golden bronze.
—**Cheviot Maid Supreme.** ANTR-7C. 30¢
An early flowering bright pink.
—**Glorious.** ANTR-7G. 30¢
Bright reddish bronze; 3 ft.
—**Lucky Strike.** ANTR-7W. 30¢
The best pure white.
—**Rose Queen.** ANTR-7R. 30¢
The best dark pink variety.
—**Sunlight.** ANTR-7S. 30¢
A beautiful orange-bronze color.
—**Suntan.** ANTR-7T. 30¢
An old reliable orange-bronze.
—**Yellow Wonder.** ANTR-7Y. 30¢
Improved strain; extra early pure yellow.
—**Greenhouse Blend.** ANTR-7GX. 50¢
A carefully hand-made blend. Trade packet: 50¢; ¼ oz. \$1.50.
—**Blend of Varieties.** ANTR-2X. 50¢
Large flowered, semi-dwarf. ½ Oz. \$1.30.
(Not rust-proof).

ANTI-RHINUM SPECIES:

—**Asarina.** ANTR-10. 40¢
Ivy-shaped lvs; fine plant on sunny dry wall, flowering best in poor limey soil; June-Sept; seed can be sown from March to August.
—**Magic Carpet Mixed.** ANTR-11X. 25¢
Very dwarf rockery strain, in good color range. ¼ Oz. 80¢.

APHANOSTEPHUS.

—**Appleblossom.** ANTR-2A. 25¢
—**LAZY DAISY:** Pink and white with gold-
Very rare rockery species; short spurs; en centers; 18"; HA.

BIENNIALS and PERENNIALS:
Get them started by Aug. 15th in 5th zone.
D. B. means the dried fruits.

APTENIA.

(ap-TEEN-ee-ah)

Alzoniaceae. Monotypic South African genus. (Mesembryanthemum). Grown in conservatories or window gardens.

—cordifolia.

Purple fls, $\frac{1}{2}$ " ac; 2 ft; TP. **APTE-1. 30¢****AQUILEGIA**

(ak-wi-LEE-ge-ah) Ranunculaceae. One of the most valuable of hardy perennials. Its foliage is attractive and the pretty spurred flowers cannot be equalled for color. They bloom early in the summer; sow seeds any time so long as they can be shaded from the hot sun and are established early in the fall; seed is sometimes slow to germinate and early planting is best; they do best in a part shaded place best. Sow in Oct. for best results or freeze for 2 weeks and then bring inside or they can be planted in Jan. or Feb., outside. C-23 or 24; LC.

LONG SPURRED VARIETIES:

These are all hybrid types, with long spurs and in almost every color; some of the strains come in exquisite blends.

**PRETTY AQUILEGIA LONGISSIMA**

- Blue Shades. **AQUI-1B. 25¢**
Best strain in blue shades; 3 ft. Oz. \$2.00
- Dobbie's Hybrids. **AQUI-1D. 75¢**
A nice English strain; $2\frac{1}{2}$ ft. Oz. \$2.00.
- Helenae. **AQUI-1H. 5¢**
A mammoth flower, bright blue and white; short spurs.
- Crimson Star. **AQUI-1C. 30¢**
Brilliant crimson, white petals; long spurs. $\frac{1}{2}$ Oz. \$2.00.

—LOWDHAM STRAIN. AQUI-1L. 35¢

Unsurpassed Peapod strain in fine color; 3 ft. Oz. \$2.50.

- Tika a Strain. **AQUI-1K. 50¢**
Giant hybrid; long spurred fls. beautiful range of color. $\frac{1}{2}$ Oz. \$2.00
- Mrs. W. Nichol's Strain. **AQUI-1N. 25¢**
A choice strain dominated by blue; $2\frac{1}{2}$ ft. $\frac{1}{2}$ Oz. \$2.00.
- Mrs. Scott Elliot Strain. **AQUI-1S. 35¢**
This has a beautiful blend of delicate colors; 3 ft. Oz. \$2.75
- Munstead White. **AQUI-1M. 40¢**
A beautiful white variety. Oz. \$2.00.
- Pearson's Sky Blue. **AQUI-1P. 25¢**
An exquisite variety; beautiful giant sky-blue fls with white corolla. $\frac{1}{2}$ Oz. \$2.75.
- Red and Orange shades. **AQUI-1R. 35¢**

Rich coloring; Danish grown Strain.

—Rose Queen. **AQUI-1Z. 25¢**
Large flowered pink with white corolla. $\frac{1}{2}$ Oz. \$1.25.

—White Queen. **AQUI-1W. 30¢**
(candidissima) $\frac{1}{2}$ Oz. \$1.50.

—Saier's Long Spur Blend. **AQUI-1X. 25¢**
This strain contains the very best blend of the various long spurred Columbines. Oz. \$2.00.

AQUILEGIA SPECIES:

- Bertolonii. **AQUI-7. 75¢**
(Reuteri) 1 ft; alpine; fls 1" ac, blue violet, short spurs.
- caerulea. **AQUI-10. 30¢**
Colorado Columbine. Blue-purple fls; 3 ft; May-June; HP; not too rich soil.
- canadensis. **AQUI-11. 25¢**
Yellowish or red sepals, red spurs; May-June; $2\frac{1}{2}$ ft; pH 6; not too rich soil; HP. **PLANTS: 50¢ each; 3 for \$1.30.**
- chrysantha. **AQUI-12. 25¢**
Yellow; long spurs; May-Aug; 3 ft; HP.
- Golden Queen. **AQUI-12G. 25¢**
Long spurs. $\frac{1}{2}$ Oz. 1.25
- Jaeshkanii. **AQUI-12J. 30¢**
Yellow fls with red spurs. $\frac{1}{2}$ Oz. \$1.40.
- Silver Queen. **AQUI-12S. 30¢**
Long spurred white variety. Oz. \$2.00.
- Mixed. **AQUI-12X. 25¢**
- clematiflora. **AQUI-14. 25¢**
Pale pink and blue spurless fls; 18"; HP.
- Eiseleana. **AQUI-19. 35¢**
Bluish violet, $1\frac{1}{2}$ " ac; short spurs; lime; 15"; Austria.
- flabellata. **AQUI-22. 25¢**
Pretty dwarf species; pure white; 1 ft.
- nana alba. **AQUI-22A. 35¢**
A dwarf white variety of above.
- glandulosa. **AQUI-24. 30¢**
True alpine; powder blue and white; RG; 8"; HP.
- Hensel Haebell. **AQUI-26. 25¢**
A vivid deep violet-blue; 18"; HP.
- longissima. **AQUI-32. 25¢**
Lovely pale yellow; very long spurs; 3 ft; HP. $\frac{1}{4}$ Oz. \$3.00.
- Reuteri: see A. Bertolonii.
- Skinneri. **AQUI-42. 30¢**
Crimson with greenish yellow sepals; spurs pale red; (Mexican C.) $\frac{1}{2}$ Oz. \$1.50.
- To-kington's Double. **AQUI-46. 25¢**
The only double; wine-rose; 3 ft; HP.
- vulgaris. **AQUI-48. 25¢**
(A. transsilvanica); fls 2" ac. nodding blue and white; 18"; HP. $\frac{1}{2}$ Oz. 80¢.
- pecta. **AQUI-48E. 25¢**
Edelweis. Very dwarf, compact snow white; single; mixed $\frac{1}{2}$ Oz. 80¢.
- Double Mixed. **AQUI-48X. 30¢**
- Saeier Blend. **AQUI-SX. 25¢**
Only the species; no long-spurred types. Oz. \$2.00.

ARABIS.**ROCK CRESS**

- (A-RAB-is) Cruciferae. Annuals, biennials and perennials with several fine rockery species; all are easily grown from seed; mostly low plants; flowers in terminal spikes or racemes, blooming in early spring. Sow seed any time as for most perennials but early sown seed best.
- arabidensis. **A-RB-25. 25¢**
 - nana compacta. **A-RB-26. 25¢**
 - Very dwarf and free flowering white; HP. $\frac{1}{4}$ Oz. 45¢.
 - pinnocox. **A-RB-2P. 30¢**
A giant flowered white. Oz. 70¢.
 - rosea. **A-RB-2Z. 25¢**
Very pretty bright rose silver-gray foliage; 6"; HP. $\frac{1}{2}$ Oz. \$2.50.
 - Snow Cap. **ARAB-2S. 25¢**

A very showy white flowered plant; 1 ft; HP. Oz. \$2.00.

—**biepharopylla.** **ARAB-8. 50¢**
Spring Charm. Nice bushy plant with intense carmine fls; HB. ¼ Oz. \$2.50.

—**Spring Charm.** **ARAB-4S. 30¢**
A nice bushy little plant with intense carmine fls. ¼ Oz. \$2.50.

—**Fühingszauber.** **ARAB-8F. 25¢**
Pretty carmine-rose from Switzerland. (Seed was short this year—expect more.)

—**caucasia.** **A AB-13. 50¢**
(A. albidia) To 1 ft; fragrant; white; HP. (Seed was short this year—expect more.)

—**pumia. Snow Cap.** **ARAB-35S. 25¢**
Profuse; white; trailer; 6"; HP. Oz. \$2.00.

—**Scf. ehaube** **ARAB-39. 25¢**
A pretty white; very early; HP.

—**Aabis Mixed.** **ARAB-X. 25¢**
All kinds mixed; HP.

ARALIA.

(ar-TAY-lee-uh) Araliaceae. About 20 species of deciduous trees, shrubs and plants mainly used for ornament and wild life food; the seed has a dormant embryo and all sowing is probably best with 2 yrs. allowed for complete germination; C-36.

—**chinesis.** **ARAL-7. 30¢**
Fls in panicles to 2 ft long; 2½ ft; China. Oz. \$1.00.

—**Japanese Angelica.** **ARAL-9. 35¢**
Grows to 50 ft; Manchuria. Oz. \$1.25.

—**Mseri:** see *Fatsia japonica*.
—**acemosa.** **PLANTS ONLY**

American Spikenard. Large aromatic roots; greenish white fls in clusters all summer; fr. berry-like, dark purplish, red or black; deciduous; 1-3 ft HP. **PLANTS: 60¢ each; 2 for \$1.50.**

—**Sieboldii:** see *Fatsia japonica*.
100 seeds 50¢.

—**spinosa.** **ARAL-14. 25¢**
Devil's Walking Stick. Hercules Club. Angelica Tree. Hardy up in Penn; (V); good wild life food and shelter. Oz. \$1.25.

ARAUCHARIA.

(ar-raw-KAY-ree-uh) Araucariaceae. Good pot plant in the N; grown out doors in (X) zone; germ. in dark.

—**arauca.** **ARAU-3. 50¢**
(A. brasiliana) Brazil; seeds are large. 100 seeds \$6.00.

—**angustifolia.** **ARAU-1. 50¢**
(Brazilian) Brazil; seeds are large. New crop in Aug; 85 seeds to lb. 100 seeds, \$6.00.

—**Cunninghamia.** **ARAU-9. 50¢**
Hoop-Pine. Grown in U. S. for timber plants in GH. Oz. 90¢; lb. \$9.00.

—**colombiana.** **ARAU-8. 50¢**
New Caledonian Pine. Used in U. S. in its immature state for pot plants; deep green frs; fresh seeds; order ahead of needs; ask for prices in quantity.

—**excelsa.** **ARAU-11. \$1.00**
Marble Island Pine. A pretty evergreen from S. Pacific and grown in pots in GH; seed ready during June-July and should be for the delirious; any impression and orders should be booked in advance; ask for quantity prices.

ARAUJIA.

(ar-AW-lee-uh) Asclepiadaceae. Woody climber with silver or bell-like fls; are for the and grown under glass in N; plant seed in early spring over some heat; (IX).

—**laevis.** **A AJ-1. 30¢**
White or pinkish fls 1" ac; twiner; Brazil.

ARBUTUS.

(ahr-beu-tis) Ericaceae. Grown out doors in warm sections or under glass in the N; well drained soil; evergreen tr or shrubs with attractive fls; seed of species can be sown in sandy peat during Feb; pot small seedlings as soon as possible.

—**Unedo.** **ARBU-4. 30¢**
STRAWBERRY TREE; drooping clusters of white or pink fls; 30 ft. c.s. Oz. \$2.00;

ARCHONTOPHOENIX.

(ark-on-toh-FEE-nix) King Palm. Palmarcae. Hardy in the (X).

—**Cunninghamia.** **ARCH-3. 50¢**
(Seaforthia elegans) (Ptychosperma or Loroma) Piccareen Palm. 35 seeds to oz. 100 seeds, \$2.00.

ARCTOSTAPHYLOS.

Bearberry

(ark-toh-STAF-ee-los) Ericaceae. Evergreen shrubs and small trees mostly native of California; not hardy in the N; useful for wild shelter and food and as a honey plant; seed is slow in germination due to the hard seed coat plus a dormant embryo; some species can be treated by sulfuric acid others by stratification in moist sand at 70-80 degrees; sow seed in the fall and leave 2-3 years; mulch beds.

—**bicolor.** **ARCO-2. 25¢**
To 6 ft; rose fls; Calif.

—**uva-ursi.** **ARCO-27. 30¢**

BEAR-BERRY; prostrate sh; good wild-life food; very hardy; (II); stratify 60 days at 75 degrees followed by 60 days at 40. c.s. Oz. \$1.50; lb. \$8.00.

ARCTOTIS.

(ahrk-TOH-tis) Compositae. South African annuals with attractive daisy-like flower heads; valuable for cut-flowers; easily grown in fair soil and full sun; start seed indoors for real early bloom or they may be planted in the open in May. Flowers can be cut in the bud and they will open quickly if placed in the sun; they will not stand hard frosts; C-7.

—**acaulis.** **ARCT-1. 25¢**
Stemless; yellow, rays purplish beneath; 9"; HHA; space 15 inches

—**grandis:** see *stoechadifolia*. **ARCT-3. 20¢**

—**stoechadifolia.** **ARCT-8. 20¢**
African Daisy. Pure white, with blue disk; 12"; HHA Oz. 90¢.

—**Large Flowered Hybrids.** **ARCT-8H. 20¢**
Yellow, orange, bronze, red. ½ Oz. 50¢.

—**Arctotis Blend.** **ARCT-X. 20¢**

ARCTOUS.

(AHRK-toh-us) (Ericaceae) Dcid. low shs for cool sandy places; ground cover; fls in terminal clusters.

—**alpinus.** **ARCT-U. 25¢**
Black Bearberry. Frs brighter green and larger frs than A. alpinus. Oz. 80¢.

ARDISIA.

(ahr-DIZ-ee-ah) Myrsinaceae. A large genus of tropical ornamental evergreens suitable for the greenhouse. They make nice pot plants; seeds germinate readily.

—**crinita.** **ARDI-1. 35¢**
White fls; grown as a pot plant for its crowded frs (crinata); 200 seeds to oz; 100 seeds, best in moist atmosphere; do over-pot. Oz. 75¢; lb \$5.00.

—**laevis.** **ARDI-2. 50¢**
White flowers; red berries; 1½ ft; China. Oz. 2.00.

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ARECASTRUM.

Palmaeae. Palms.

- Romanzoffianum australe.** **ARES-1A.** 75¢
Queen Palm. \$6.50, 1,000 seeds.

ARENARIA.**SANDWORT**

(ay-e-NAY-re-ah) Caryophyllaceae. Low growing annuals and perennials usually forming low mats; excellent in the rocky; they are also excellent in carpet bedding; best in a sandy soil.

- balearica.** **AREN-3.** 40¢
Corsican S. Creeper; 3"; solitary white fls; (V).
—**caroliniana.** **AREN-8.** 25¢
Clumps with 6" awl-shaped stems, covered with $\frac{1}{2}$ " white stars; RG; acid soil; sow seeds in early spring.
—**Kotschyana.** **AREN-22.** 40¢
Compact, tufted, glossy; many white fls; 23-ft; HP.
—**lithophila.** **AREN-27.** 35¢
Extra choice; white fls; April-May; 1 ft. HP.
—**montana.** **AREN-29.** 35¢
A charming species; pure white fls; free blooming; trailer; HP. $\frac{1}{2}$ Oz. \$1.50.
—**Arenaria Blend.** **AREN-X.** 30¢
Mixture of species.

ARGEMONE.**Prickly Poppy**

(ahr-je-MOH-ne) Papaveraceae. Prickly Poppy. Grown as annuals in the flower garden, thriving in any good soil in a sunny place. Large poppy-like fls; 2-4 ft. tall; the plants make fine annual hedges; blooms in April.

- a.ba.** **ARGE-1.** 25¢
Large white fls; fol marbled white; 3 ft; grow as a HA; HP in (VII); space 1 ft. $\frac{1}{4}$ Oz. \$1.00.
—**hybrida Mixed.** **ARGE-2F.** 20¢
A French strain of fine hybrids.
—**mexicana.** **ARGE-3.** 25¢
Wild Yellow Poppy. Yellow or orange fls, 2" ac; 3 ft; Trop. Amer. Oz. 90¢
—**platyceras.** **ARGE-4.** 30¢
Very pretty HHA that must be given a southern exposure, full sun and a rather dry spot; best sown in fall; not too much water; fls white; 4-5 ft; Texas.
—**rosea.** **ARGE-4R.** 25¢
Blooms for months; bluish rose-crimson flowers; 3 ft; HHA.
—**hispidia.** **ARGE-4H.** 25¢
White fls and prickly; thistle-like fol; June-Sept; 2 ft; HA; space 1 ft.
—**Argemone Blend.** **ARGE-X.** 20¢
A mixture of all kinds.

ARGYREIA.**(ar-jih-REE-uh)**

Convolvulus. Twining sh or perennial and grown in GH or outside in far South.

- splenders.** **ARGY-4.** 40¢
Silver Morning Glory. Tall cl; rose fls, $1\frac{1}{2}$ " long; India.

ARGYRODERMA.

Dwarf compact, highly succulent plants, forming annually thick silver lvs; grows in summer easy; requires much sunlight to flower in autumn.

- brevipes.** **ARGY-5.** 50¢
—**patens.** **ARGY-15.** 50¢
—**testiculare.** **ARGY-24.** 50¢
Yellow, red or white fls; good.

ARIOCARPUS.

Cactaceae. Spineless and making a small nearly globular shaped plant.

- retusus.** **ARIO-12.** 50¢
Seven Stars. Globular; 4" ac; fls white

to pink, 2" long; Mexico.

—**trigonus.**

Pae yellow fls; similar to retusus in shape; Mexico. **ARIO-20.** 50¢

ARISAEMA.**(ar-RISS-em-ah)**

Araceae. Mostly tuberous rooted plants suitable for moist shady places; not hardy in N but make good pot plants.

- amurensae.** **ARIS-1.** 30¢
(am-moor-REN-siss) 100 seeds \$3.00; 500, \$11.00.
—**Himalayan Alpine species.** **ARIS-5A.** 50¢
Snake Lily Finest blend of alpine species from the Himalaya.
—**Jacquimontii.** **ARIS-9.** 50¢
Green spathes striped white.
—**Pradhamii.** **ARIS-13.** 50¢
Enormous spathes beautifully netted with white on black ground.
—**triphylum.** **ARIS-9.** 35¢
Jack-in-the-Pulpit, Indian Turnip. 3 ft; HP; (IV). **PLANTS:** 45¢; 3 for \$1.25.
—**Mixed.** **ARIS-X.** 40¢
Snake Lily. Fine Himalayan species.

ARISTEA.

(ah-RIS-te-ah) Iridaceae. South African plants, tender in the North but grown in the open in the far South. Leaves are in large basal rosettes; flowers blue and in spikes. In the North they are grown in the greenhouse.

- Ecklonii.** **ARIT-3.** 25¢
Bright blue fls; 2-3 inches ac; 1 ft; TP. Good for damp places.

ARISTOLOCHIA.

Dutch Pipe Vine (ar-is-toh-L O H-ki-ah) Aristolochiaceae. Dutchpipe Vine. Mostly perennial climbers with odd-shaped flowers and heart-shaped leaves. Some are grown in the greenhouse; easily grown from seed.

- elegans.** **ARST-5.** 25¢
Purple-brown flowers with white markings; GH cl; HP; (IV); Calico Flower. Oz. \$4.00.
—**fimbriatus.** **ARST-6.** 35¢
Not much of a climber; fls 1" ac, greenish brown outside, purplish brown inside; Argentina.
—**ringens.** **ARST-16.** 50¢
—**ornithocephala.** **ARST-17.** 50¢
—**racemosa.** **ARST-18.** 35¢
—**fomentosa.** **ARST-19.** 25¢
Climber to 30 ft; native of N. C. to Fla; HCL. Lb. \$4.00.

ARISTOTELIA.**(ah-rist-oh-TEEI-ee-uh)**

Elaeocarpaceae. Evergreen trs and shs of S. Hemisphere; (X).

- racemosa.** **ARIA-9.** 50¢
Wineberry. Quick growing N. Z. tree with large panicles of very attractive fls; pale rose to deep claret, followed by clusters of red to black berries; 15 ft; (V).

ARMERIA.**THRIFT. SEA-PINK**

(ahr-MEE-ee-ah) Plumbaginaceae. Sea-Pink; Thrift; Statice. Dwarf perennials plants; best in a sunny position and well drained soil. The genus has been reclassified of late; germination 2 weeks.

- Bee's Ruby.** **ARME-6B.** 30¢
Best cutting var; lasts well in water as well as for drying; space 12" in row.
—**caespitosa.** **ARME-7.** 50¢
To bed: 8" high; shining dark green lvs; pink fls; RG.
—**coriacea.** **ARME-5.** 40¢
(A. leuccephala v. procera) Pale rose flowers; 1 ft; HP.

- formosa hybrids.** **ARME-6H. 25¢**
Large flowers in many colors; 18"; HP.
Oz. \$2.00; lb. \$18.00.
- leucocephala v. procera.** **ARME-12. 50¢**
Pale rose-pink, erect heads; 12"; Corsica.
- maritima.** **ARME-14. 75¢**
White to deep rose; 1 ft; HP. **Oz. \$3.00.**
- apina.** **ARME-14A 30¢**
Heads 1" ac; scapes glabrous, 8" tall.
- Lauchearia.** **ARME-14L. 25¢**
Rose and pink heads; 1 ft; HHP.
- Six Hills Hybrids.** **ARME-22H. 30¢**
A very pretty English strain.
- Armeria Blend.** **ARME-X. 20¢**

ARNICA

(AR-ni-ka). Compositae. Perennial plants with clustered basal leaves and bright yellow flowers, on long spikes. They are effective in colonies in the wild garden, growing rapidly in an acid soil; C-24. Fls used externally in healing wounds.

- cordifolia.** **ARNI-6. 25¢**
The flower heads in rays; 15"; HP.
- montana.** **ARNI-11. 25¢**
Mountain Tobacco. Large heads of yellow ray fls; 2 ft; HP; C-24; LC. **Oz. \$2.00.**

ARTEMISIA.

(ahr-tee-MIS-ee-ah)

Wormwood. Compositae. Hardy aromatic plants some of which may be found listed in the Herb List. The flowers are in heads and composed entirely of tubular disk flowers; grown mainly for their aromatic and medicinal properties; thrives in poor soil. Flowers in late summer and makes plants in the back border. Sow in March at 60 degree Far; harden off.

- Absinthium.** **ARTE-2. 20¢**
The common Wormwood; sub-shrub; 6 ft; HP. **Oz. 75¢.**
- caucasia.** **ARTE-15. 25¢**
- Dracunculus.** **ARTE-17. 35¢**
Tarragon. HP to 2 ft; leaves used in seasoning.
- sacrorum v. viridis.** **ARTE-40V. 50¢**
Summer Fir. Erect; yellowish flowers; 3-5 ft; HHA; C-9; space 2 ft.
- vulgaris.** **ARTE-50. 35¢**
Mugwort. Aromatic sh with medicinal properties; 3½ ft; HP.
- Artemisia Blend.** **ARTE-X. 30¢**

ARTHROPODIUM.

(ahr-throh-POH-di-um) Liliaceae. Tufted perennials of the Lily Family and grown in the GH; lvs grass-like; fls in clusters.

- cir-hatum.** **ARTH-2. 35¢**
A handsome plant; fls in panicles, much like Gypsophila, with hundreds of small white fls on 36 in. stems; cuts well; any soil and light shade; May-June; HHA.

ARUM.

(AY-rum) Araceae. They require a rich soil, plenty of water and a shady place; some make nice pot plants for the greenhouse while others are hardy. If undisturbed, they will form better flowers; they are tuberous rooted plants.

- italicum.** **AUM-1. 30¢**
Creamy white flowers in the spring; evergreen foliage in the South; 1 ft; HHP.

ARTOCARPUS.

Moraceae. Trees of tropical regions; grown in S for its fruit; interesting.

- heterophyllum.** **ATO-7. 40¢**
(A. integrifolia) Jack-fruit. Tr. to 60 ft; fr. 2 ft long; seed available June-Sept only on order; 100 seeds \$3.50.
- integra.** **ARTO-8. \$1.00**

Bread-fruit. Suitable for large GH or conservatory; seed available June-Aug; 10 seeds for \$1.00.

—**fraxinifolia.**

ARTO-6. 40¢

ARUNCUS.

(ar-RUNK-us)

Goat's Beard. Rosaceae. Erect, hardy perennials with small fls in large plume-like panicles; lvs in N; thrives in moist, part shaded places.

- syriacus.** **PLANTS ONLY**
Goat's Beard. Stately plant with large compound lvs; small white fls in plume-like panicles; shade. **PLANTS: 65¢; 3 for \$1.50.**

ASARUM.

(ASS-uh-um)

Wild Ginger. Aristolochiaceae. Planted in the wild garden or woods; rich moist soil.

- canadense.** **PLANTS ONLY**
Canada Wild Ginger. Lvs kidney-shaped 3-5" wide; shady spots with ferns; 10-20". **PLANTS: 40¢ each; 3 for 90¢.**
- caudatum.** **ASAR-4 35¢**
Brownish purple fls; June; lvs 6" ac; (IV)..

—**shuttleworthii.** **PLANTS ONLY**
Mottled Wild Ginger. Thick fragrant ev. lvs mottled white; shade or part; rich soil; HP. **PLANTS: 50¢ each; 3 for \$1.25.**

ASCLEPIAS.

(as-K-L-E S-pe-as) Asclepiadaceae. Silk-weed; Milk-weed. Attractive habit and showy flowers; they make nice plants in the border; are easily grown from seed best sown in the fall.

- curassavica.** **ASCL-3. 25¢**
Blood-flower. Reddish purple corolla; orange hoods; 3 ft; TA; C-22. **Oz. \$1.00.**
- latifolia.** **ASCL-7. 30¢**
From Texas.
- syriaca.** **ASCL-14. 25¢**
Green or purplish flowers; July-August; 5 ft; HP; (A. Cornutii); C-23.
- tuberosa.** **ASCL-15. 25¢**
Orange flowers; July-August; 2-3 ft; HP. splendid cut fls; attracts many butterflies; C-23; ½ Oz. \$1.50.

ASCYRUM.

(ass-EYE-rum)

Low shrubs; fls bright yellow, 4-parted; needs some protection in N; similar to Hypericum.

- hypericoides.** **ASCY-2. 25¢**

ASIMINA.

(as-SIM-in-uh)

(as-SIM-in-uh) Annonaceae. Found in rich moist soils from Mich. southwards; best known for its fruits, eaten by man and wild-life; seed sown in the fall do not germinate till spring or the seed can be stratified in moist sand at 40 degrees for 2 months and planted in the spring.

- tilloha.** **ASIM-4. 50¢**
Paw-Paw. Decid. tr to 30 ft; purple fls; 2" ac fleshy edible fruits; Mich-Fla; (IV); 30 seeds per oz; **Oz. \$1.00.**

ASPARAGUS

(ass-PAR-ah-gus) Liliaceae. The decorative ones are easily grown but are tender plants in the North. Those listed are grown for their green foliage. New crop seed comes in during the spring and commercial growers wanting seed by the pound should order before the end of the year.

The seeds can be planted in pots. They germinate in 2-3 weeks but may be as long as 5-6 weeks; give some bottom heat. New seed crop starts Fed.-March, with deliveries about May.

—**asparagoides.**

Smilax of the greenhouse; berries dark purple; C-22; DW.

—**Cooperi.**

S. Af. vine to 60 ft; very dark green lvs; makes fern-like sprays; for cut-greens in the North.

—**falcatus.**

Tall climber to 10 ft; sickle-shaped lvs; 1,000 seeds \$5.00.

—**officialis.**

Mary Washington. This is the most popular variety for the garden; fine quality shoots. Oz. 50¢; lb. \$2.00.

—**plumosus.**

Tall climber for GH for cut greens; fine foliage; seed very irregular in germination; best medium is rough grained sand that does not pack; cover ½". Oz. \$2.00.

—**cupressoides.**

Growth like small Cypress.

—**naus.**

Dwarf for pot culture or bench; Oz. \$1.20

—**robusta.**

A stronger growing type. Oz. \$1.50; lb. \$12.00.

—**pyramidalis.**

Loose upright growth in both sprays and single leaflets; pyramidal growth.

—**racemosa.**

Tall climber; handsome foliage; dense sprays of white flowers.

—**pseudoscaber v Spitzschleier.**

Lace Veil. Feathered foliage, for cutting; sow in late fall; C-23; DW. 100 seeds 90¢.

—**scandens v. deflexus.**

Small form, deflated branched branches; white fls; 4 ft; TP; C-37. Oz. \$2.00.

—**Sprengeri.**

To 6 ft; courser foliage; fine for pots. Oz. \$1.50; lb. \$6.80.

—**robustus.**

A strong growing type. 100 seeds \$4.00; 1,000 seeds \$12.00.

—**verticillatus.**

Climbing to 15 ft; Persia-Siberia; (III); good for cut greens.

—**virgatus.**

Foliage dark green; very easy.

—**ASP-4. 25¢**

ASPHODELUS. (AS-foh-del-us) Liliaceae. Easy culture in the border or wild garden in rich sandy loam; fls lily-like; seed slow to germinate; LF.

—**ASP-7G. 50¢**

—**luteus:** see **Asphodeline.**

—**Species from the Pyrenees.** **ASPH-3. 30¢**

Oz. 90¢; lb. \$9.00.

ASPIDIUM: see **Cryptomium, Dryopteris, Polystichum.**

ASPLENIUM. (ass-PLEEN-ee-um)

Spleenwort. Polypodiaceae. A large genus containing tender GH species to hardy ones; easy to grow; want stand too much sun.

—**bulbiferum.** **ASPL-6. 75¢**

Mother S. Fronds 4 ft; 1 ft wide; N. Z.

—**flaccidum.** **ASPL-9. 75¢**

N. Z.; stem ½" wide, thick and heavy.

—**lucidum.** **ASPL-18. 75¢**

Leathery fronds 3 ft long; 1 ft wide; N. Z.

—**Nidus. (Nidus-Avis)** **ASPL-15. 50¢**

—**platyneuron.** **ASPL-20. 50¢**

Ebony Spleenwort. Narrow lvs; found on cliffs and rock soils; semi shade; 6-8 in.

Plants: 50¢ each; 3, \$1.40. Prepaid.

—**trichomanes.** **ASPL-25. 50¢**

Maidenhair Spleenwort. Small and delicate; found on rocks and cliffs; part shade. Plants: 50¢ each; 3, \$1.40. Prepaid.

ASTELIA.

Liliaceae. Tufted perennials from N. Z.; and Australia.

ASTERS

Sow Aster seeds indoors 6 weeks before it is time to set out in their beds, which is after danger of frost has passed. Do not crowd, usually a foot apart, and use care that they do not suffer a set back thru over watering, crowding or drought. It is best to transplant seedlings once; as the roots of Asters are shallow, use care in cultivating. Make succession plantings for continuous bloom but when possible use different types which flower at different times. All strains offered are wilt-resistant unless otherwise noted; germination, 12-14 days.

Asters flower best during long-day periods (short nights); rather low intensities of light used either at start of day or at end, will induce flowering earlier; C-11.

You can sow Asters for the GH, Aug. 15th for fls late in Feb.; grow at 50 F. In this case you will have to give them light from germination till plants are 20-24 in. high; space them about 8 X 8 inches.

AMERICAN BRANCHING:

Plants 2-2½ ft. tall, branching, robust, flowers double, semi-ball shaped, late August. These can be had in all Aster colors.

—**Helda.** **AST-1H. 20¢**

Pure soft salmon-rose; makes a delicate display as a cut flower. Oz. \$1.25; lb. \$9.00.

—**Sensation.** **AST-1S. 20¢**

A fine scarlet color; excellent cut-flower. Oz. 75¢; lb. \$7.00.

—**Leuchtheuer.** **AST-1L. 20¢**

A fiery copper scarlet; excellent for cutting Oz. 90¢; lb. \$9.00.

—**Colors Separate:** Oz. 90¢; lb. \$6.50.

—**Blend.** Oz. 80¢; lb. \$5.50 **AST-1X. 20¢**

CREGO:

Plants robust, branching; 2-2½ ft. tall; flowers large, double; blooms mid-August; an all purpose type

—**Enchantress.** **AST-2E. 20¢**

ASPERULA.

Rubiaceae. Woodruff. Grown in border or rockery; shade; moist soil; seed should be sown in the fall and exposed to snow and frost.

—**heaphylla.** **ASPR-7. 40¢**

HP; to 2 ft; cut fls; fls white. ¾ Oz. 80¢.

—**odorata.** **ASPR-12. 25¢**

Sweet W. White fls; 8"; lvs fragrant; best to sow seeds in fall to germinate in the spring; whole plant frag. when dried; HP. Oz. \$1.20.

—**tentata.** **ASPR-13. 25¢**

Pretty blue fls; effective in carpeting; 1 ft. fls. (Woodruff) (azurea setosa)

—**tinctoria.** **ASPR-15. 30¢**

Dyer's Woodruff. White or reddish fls; 2 ft. tall.

—**verticillatus.** **ASPR-24. 50¢**

Climbing to 15 ft; Persia-Siberia; (III); useful for cutting.

ASPHODELINE.

(ass-pho-de-LIN-ee) Differs from Asphodelus only in the flower stems being leafless and the foliage clustered at base.

—**lutea.** **ASPD-4. 30¢**

KING'S SPEARS. Fragrant yellow fls; racemes; part shade; 2-4 ft; TP.

PLEASE DO NOT USE COMMON NAMES



AMERICAN BRANCHING ASTER

Lovely salmon-rose; NEW. Oz. 90¢; lb. \$8.50.

—Blue Flame. AST-2B. 20¢

A fine clear dark blue. Oz. 90¢; lb. \$8.50.

—Colors Separate: White, lavender, rose-pink, shell-pink, deep rose, crimson. Oz.

90¢; lb. \$8.50.

—Crego Blend. AST-2X. 20¢

Scarlet; very showy for the type flower.

GIANTS OF CALIFORNIA:

The flowers are of the Crego-type, curled and twisted petals making a fine cut flower sort; stems stiff and non-branching; 3 ft; blooming in late summer.

—Azure-Blue. AST-4B. 25¢

A rich cut-flower shade. Oz. 90¢; lb. \$9.00.

—Crimson. AST-4C. 20¢

—Loveliness. AST-4L. 20¢

A rich pure pink, touched with salmon.

—Peach Blossom. AST-4P. 20¢

Opens white, flushed lavender-pink. Oz.

90¢; lb. \$9.00.

—White. AST-4W. 20¢

Pure white. Oz. 90¢; lb. \$9.00.

—Giants of California Blend. AST-4X. 20¢

Oz. 85¢; lb. \$8.50.

GIANT OSTRICH FEATHER:

Plants 2-2½ ft tall; branching; blooming in mid-August; flowers feathery, double and an all-purpose flower; wilt-resistant.

—Bright Rose. AST-6Z. 25¢

—Crimson. AST-6C. 20¢

—Malmesbury Pink. AST-6P. 20¢

—Pure White. AST-6W. 20¢

—Blend. AST-6X. 20¢

Any above: Oz. 80¢; lb. \$8.00.

PRINCESS:

Attractive new cutting type; 2-2½ ft. tall; branching, early; 3-3½ inch flowers on strong stems and with a deep crested center surrounded by several rows of dainty plume-like petals.

—Anne. AST-7A. 25¢

A pale rose; very pretty.

—Barbara. AST-7B. 20¢

New orchid color.

—Bonnie. AST-7N. 20¢

A soft salmon-rose; dainty and pretty.

—Elizabeth. AST-7E. 20¢

Pure white; a beautiful cut flower.

—Golden Sheaf. AST-7Y. 25¢

A new yellow.

—Linda. AST-7L. 20¢

Clear carmine-rose; new; very nice.

—Margaret. AST-7M. 20¢

NEW. Very pretty deep rose.

—Marsha. AST-7H. 20¢

—Pat. AST-7P. 20¢

A new carmine; delicate plumes.

—Susan. AST-7S. 20¢

True deep blue in clear shade.

Any of above: Oz. \$1.10; lb. \$11.00.

—Princess Blend. AST-7X. 20¢

BOUQUET TYPE:

—Powderpuff Mixed. AST-7BP. 25¢

This is an attractive full color blend; the flowers are tightly quilled, similar to the Pompom type but much larger, reaching a size of 3"; plant is symmetrical, upright branching, growing 24" tall; recommended for both commercial and home gardeners; early blooming and floriferous. ½ Oz. \$3.00

QUEEN OF THE MARKET:

This is a popular early flowering Aster branching, 20 inches tall, blooming in early August and a fine cut type.

—Ballet Queen. AST-8Q. 20¢

A fascinating salmon-rose.

—Crimson. AST-8C. 20¢

—Pure White. AST-8W. 20¢

—Salmon-rose. AST-8Z. 20¢

—Queen of the Market Blend. AST-8X. 20¢

This is a blend of the colors for cut flower use and not a mixture of left-overs. Oz. 75¢; lb. \$6.50. (Any of the Above)

SUPER GIANTS OF CALIFORNIA:

This is the largest and most double Aster class yet developed; flowers 6-8 inches across, graceful, interlacing petals. Plant 2½ ft. high; 6-8 non-lateral stems per plant.

—El Monte. AST-10C. 25¢

A deep clear deep crimson.

—Los Angeles. AST-10L. 25¢

A beautiful shell pink making it a fine variety for cutting and make-up work.



THE NEW PRINCESS TYPE ASTERS

POM POM or LILLIPUT:

Small flowered type; incurved petals; showy cut flower for small bouquets or edging.

—Forerunner. AST-11F. 20¢

A new carmine-rose variety. Oz. \$1.00;

lb. \$10.00.

—Sunbeam. AST-11S. 25¢

A clear yellow variety; new. Oz. \$1.00;

lb. \$10.00.

—White with Blue Center. AST-11WB. 20¢

—White with Red Center. AST-11WR. 20¢

- Crimson. AST-11C. 20¢
 - Dark Blue. AST-11B. 20¢
 - Blend. AST-11X. 20¢
- Any of above. Oz. \$1.00; lb. \$10.00.

PERENNIAL SPECIES OF ASTERS:

NOTE: I would like to hear from anyone who is making a specialty of the Aster species, especially from seed; pH 5-6.

- alpinus.** AST-14. 30¢
Violet fls; 10"; HP; C-24. 1/4 Oz. 40¢
- alba.** AST-14A. 30¢
A white rockery form; daisy-like flowers on 6 inch plants; HP.
- Dark Bauy.** AST-14DB. 30¢
A beautiful violet.
- Wolfii.** AST-14W. 40¢
Taller; blue fls; Alps.
- Goidaia.** AST-14G. 30¢
1/4 Oz. \$1.00.
- Large Flowered Types.** AST-14L. 30¢
Large flowered types; 9 inch plants; HP. 1/4 Oz. 85¢.
- superbus.** AST-14S. 30¢
Larger flowers than the type; showy.
- amelius, Rudolf Goethe.** AST-15S. 40¢
Rich lavender.
- Schone von Ronsdorf.** AST-15SR. 40¢
Bright rosy lilac.
- caucasicus.** AST-20. 30¢
Purple ray fls; heads 1 1/2 inches across; 2 ft; HP.
- communis crassulus.** AST-23. 30¢
A small flowering white; Montana; August; 2 ft; HP.
- divaricatus.** AST-33. 35¢
White Wood Aster. Fls in corymbs to 1" ac; ray-fl white; 2 1/2 ft.
- dumosus "Victor".** AST-36V. 40¢
- Farreri.** AST-40. 35¢
Narrow violet ray flowers; vermilion-orange disks; 1 ft; HP.
- Frikartii.** AST-50. 35¢
2 ft; heads 3" ac, rays violet-blue; frag; HP.
- himalaicus.** AST-57. 35¢
Heads 1 1/2 inches across; lilac-blue ray flowers; 18 inches tall; HP.
- plurimicoides.** AST-94. 40¢
White, cream centers; July-August; 12"; HP; (II).
- Purdumii.** AST-97. 50¢
Brilliant violet with hump of flaming orange; 9"; China; HP.
- pyrenaicus.** AST-98. 40¢
Flowers 2 1/2" across, rays lilac; 1 1/2 ft; HP.
- sikkimensis.** AST-108. 30¢
- subcaeruleus.** AST-110. 30¢
Very large lilac-blue flowers; very good; 9 inches high; HP
- Star of the Wartburg.** AST-110W. 30¢
Bright lavender-blue; prominent yellow centers. 1/4 Oz. \$4.00.
- tibeticus.** AST-122. 40¢
Bright blue, heads 2" ac; Tibet; 1 ft; HP.
- Perennial Aster Blend.** AST-PX. 25¢
1/4 Oz. \$1.00.

ASTILBE.

(ah-STIL-be) Saxifragaceae. The florist Spirea: easily forced in the greenhouse; sow seed in December using soil containing sand, peat and leaf mould. They thrive in moist soil and part shade; they germinate readily if seed is frozen 5-10 days than at 45-55 F under glass; try C-23. Resents disturbance.

- biternata.** ASTI-3. 35¢
False Goat's-beard. Decid. shade loving plants; yellowish white fls; 3-5 ft; HP.
- chinensis.** ASTI-4. 30¢

- A dwarf form; white flowers; 2 ft; HP.
- (Seed was short this year—expect more)
- rivularis.** ASTI-10. 30¢
Yellowish white flowers in large panicles; 5 ft; HHP.
- (Seed was short this year—expect more)
- var. ea. a.** ASTI-20. 40¢
- Mixed.** ASTI-X. 25¢

ASTRAGALUS.

(as-TRAG-ah-lus)

Leguminosae. Deeply cut leaves and purple, yellow or white fls in spikes or racemes; thrives in light sandy soils; RG or border; easily grown from seed sown in spring; resents transplanting.

- alopecuroides.** ASTR-4. 40¢
dense spikes; 5 ft; HP.
- crassicaupus.** ASTR-15. 40¢
Buff, lo Pea; raspberry clusters; 15"; HP; (II).
- missouriensis.** ASTR-27. 40¢
Showy magenta-purple fls in clusters; 5 ft; HP; (I).
- Purshii.** ASTR-30. 30¢
Mat forming, white woolly lvs; fls white or blue; sun; HP.
- spatulatus.** ASTR-40. 50¢
Tufted RG; bright purple little heads; 4" HP; (I).

ASTRANTIA.

(as-TRAN-shi-ah) Umbelliferae. Flowers are in odd and attractive umbels and they make interesting plants for the border, especially in moist places; seed of the varieties do not come 100% true; they resent transplanting; germination slow.

- bavarica.** ASTN-3. 30¢

ASTROLOMA.

- humifusum.** ASTB-7. 40¢
Cranberry Heath. Mat-like plant growing in grow center root; narrow scarlet fls hidden by lvs; fr a large green or reddish berry, 1/2" diameter.
- major.** ASTN-5. 35¢
Pinkish, rose or white fls in umbels with showy bracts, tinged purple; fine stream-side flower; 3 ft; HP.

ATHYRIUM.

(ath-THEER-ee-um)

- Polypodiaceae... Similar to Asplenium mostly tropical.
- Filix-femina.** ATHY-6. 50¢
Lady Fern. One of the easiest ferns for shady places in the border or wild garden. Plants: 50¢ each; 3, \$1.40. Prepaid.
- stenopteris.** ATHY-12. 50¢

ASTROPHYTUM.

Star Cactus. Cactaceae. Small type Cactus with large flowers.

- cap. core. aureum.** ASTC-4A. 50¢
Plant 8" high; cylindrical.
- major.** ASTC-4M. 50¢
- Minor.** ASTC-4N. 50¢
- nudum.** ASTC-4D. 50¢
- o-natum.** ASTC-9. 50¢
Cylindrical; 1 ft; lemon-yellow fls, 3-4" broad.
- q'ah-eseus.** ASTC-9G. 50¢
- Mirbe'lii.** ASTC-9M. 50¢

ATALAYA.

- hemiglaucia.** ATAL-3. 50¢
White fls in summer; (IX); good ornamental; 30 ft.

When ordering rare sorts of seeds always include a few substitutes to avoid refunds.

ATRIPLEX.

(A-trip-plex) Chenopodiaceae. **SALT BUSH.** Small plants and shrubs generally grown on dry salty soils.

-hortensis

Orach. Sow seed in April; thin to 18" apart; grow like Spinach; 6 ft; very ornamental; germ 9 d; HA.

-numularia.

Old Man Salt Bush. Good hedge plant; 6-10 ft.

ATROPA.

(a-tro-pa) Solanaceae. **BELLADONNA.** Mainly grown for its drug properties.

-Belladonna.

Shining black berries; 3 ft; HP; poisonous; a drug herb.

AUBRIETIA

Mat forming perennials prized for their abundant flowers in the spring; they are favorites in the rocky and closely allied to and resemble Arabis. Easily grown from seed, starting them anytime, for flowering the next spring; they are especially good between rocks and like a little shade; C-23.

-deltoidea.

All the garden varieties belong to this species; lilac. 1/4 Oz. 70¢.

-Campbelli.

Ageratum-blue flowers.

-Eyrei.

A very beautiful violet-blue; HP. 1/4 Oz. 80¢.

-graeca.

Large and more bushy than type; HP. 1/4 Oz. 70¢.

-Hybrids.

Large flowered types; HP.

-Hendersonii.

—**Giant Hybrids.**

-Leichtlinii.

Carmine-rose. 1/4 Oz. 90¢.

-semi-double Hybrids.

A bright blend of giant flowered double and semi-double hybrids in an exceptionally wide color range, varying from soft rosy lilac to deep purple-carmine. 1/8 Oz. \$2.00.

-Whitewall Gem.

Pretty violet flowers; HP. 1/4 Oz. \$1.00.

-violacea.

Improved form, pure violet flowers.

-Mrs. Rodewald.

This want breed true but as it is the best of all Aubrietias, it's off-spring should be good.

-Aubrietia Blend.**AUCUBA.**

(aw-KEW-buh) Cornaceae. Evergreen shrubs in cool GH or outdoor in S; ornamental fol; part shade; moist well drained soil.

-japonica.

Dark green shining lvs 7" long; 15 ft. 70 seed to ounce. Oz. 50¢; lb. \$2.00.

-variegatis.

Oz. 50¢; lb. \$3.00.

AUREOLARIA.

(aw-ree-ol-LAY-rec-uh) Scrophulariaceae. N. Am. perennials.

-flava.

4 ft HP; yellowish orange fls, 2" long; July-Aug; Wis-Miss; (IV).

AVENA.

(ah-VEN-ah) Gramineae. Ornamental Oats; mostly annual grasses with loose panicles; seed sown early in the spring or in the fall in the South; ornamental.

-sterilis.

Animated Oats. 3 ft; awns 2"; HA; good cut or drying.

AVERRHOA.

Oxalidaceae. Ev. gr. trees of tropical Asia; for frost-free places; deep rich soil and moist climate.

-Carambola.

To 30 ft; a fine tree with white fls and golden brown fr. 5" long; edible.

AYLOSTERA.

Cactaceae. S. Amer. Cacti allied to Reutia.

-Fiebrigii.

Bright yellowish red fls, 1 1/2" long; Bolivia.

AZALEA.

Rhododendron. The Azaleas belong to the Rhododendrons but we will list some of the trade items here; culture as for Rhododendrons.

AZUREOCEREUS.**-nobilis.**

AZUR-10. 40¢

BABIANA.

(bab-ee-AY-nuh) Iridaceae. South African cormous plants to be grown indoors in the N or outside in the S. Flowers in terminal clusters or racemes.

-hypoea.

—**stricta v. sulphurea.**

Pale yellow to white variety; 1 ft; S. Af. (VIII).

BACCHARIS.

(bak-KAR-iss) Compositae. Shrubs with small white or yellowish heads in corymbs or panicles. They are showy.

-halimifolia.

Groundsle-bush. 12 ft; (IV); grows along the sea shore and marshes. Oz. 60¢; lb. \$4.50.

BAERIA.

(BEER-ee-uh) Small Calif. native annuals; 1 foot; with heads of small yellow daisy-like fls; blooms late spring or summer, easy; good for edging or for everlasting flowers.

-aristata.

Useful for edging or everlasting fls; heads 1/2 inch across.

-chrysostoma.

(B. aristata) 10"; heads 1/2 in ac; HA.

BAILEYA.

(BAY-le-yah) Compositae. Native of deserts and dry regions of W. N. America.

-multiradiata.

(mull-tih-ray-DEE-ay-tiss) Fl-heads 1 3/4" ac; brown-yellow fls; quick; showy; 1 1/2 ft; HA; Texas. 1/4 Oz. 90¢.

BALLOON VINE: see *Cardiospermum*.

BALM, Lemon: see *Melissa officinalis*.

BALSAM Garden see *Impatiens balsamina*.

BALSAMORHIZA.

Balsam Root (bal-sam-or-RYE-zuh) Compositae. Balsam Root. Nice plants for the wild garden with Sunflower-like fls; sandy soil.

-sagittata.

BALS-3. 30¢

A charge of 25¢ must be made for Catalog

Lvs like shields; 2 ft; April; HP; (IV).

BANKSIA.

(BANKS-ee-ah)

Proteaceae. Australian evergreen shrubs and trees; flowers in dense terminal spikes; grow in the South; easy from seed; does not transplant well, probably due to fact the roots are devoid of the fine root-hairs, depending on a soil fungi; add 25% rotted lvs or wood; do not sterilize soil; grow by old stump or rotted log.

—*integrifolia*.

BANK-8. 40¢

Australian tr to 30 ft; spikes 6" long.

—*serrata*.

BANK-24. 50¢

Large bottle-brush flowers, 8 inches; lovely silver leaves; tree to 20 ft; Australia.

BAPTISTA.

FALSE INDIGO

(bap-TEEZ-ee-ah) Leguminosae. Sturdy perennials, growing to 6 feet; foliage is a deep green and attractive in the border; the flowers resemble Lupins in form and come in all shades of blue, white and yellow. Late in the fall the seed pods turn dark and are thus rather showy. Seed can be planted where the plants are to grow; rich soil best; HP.

—*australis*.

BAPT-2. 20¢

Deep blue fls; 3-4 ft; June-July; HP; (IV); Oz. 60¢. PLANTS: Each 75¢; 3-\$1.75.

—*alba*.

BAPT-2A. 25¢

—*hybrids*.

BAPT-2H. 20¢

Colors include cream, gold, blue violet, bronze, chocolate, etc.....Oz. \$1.60.

—*bracteata*.

BAPT-4. 35¢

30"; white to cream colored fls; (IV).

—*tincoria*.

BAPT-9. 30¢

Yellow pea-blossoms in summer; sunny, dry sandy soil best; HP. PLANTS: 60¢ ea; 2 for \$1.60.

BARLERIA.

(bar-LEER-ee-uh) Acanthaceae. Tropical plants grown in the greenhouse in the N. They have showy bracts.

—*lupulina*.

BARE-3. 40¢

Thorny sh; long gray lvs with red midrib; yellow fls; GH.

BARTONIA aurea: see *Mentzelia Lindleyi*.
BASIL, Sweet: see *Ocimum basilicum*.

BAUHINIA.

(boh-HIN-ee-ah) Leguminosae. Tropical plants grown out doors in the South. They make a fine showing with their colorful racemes of white, purple and yellow flowers; TP.

—*acuminata*.

BAUH-2. 30¢

White flowers in racemes; 6 ft shrub; TSh (X).

—*galpinii*.

BAUH-6. 30¢

Half climbing sh; 6 ft; terre cotta fls; TSh New crop seed about December

—*integrifolia*.

BANK-8. 40¢

Australian tr to 30 ft; spikes 6" long.

—*magalandra*.

BAUH-9. 30¢

—*monandra*.
Butterfly Flower, Jerusalem Date. Sh or small tr; pink fls in terminal racemes. Oz 50¢

—*Petersiana*.

BAUH-12. 30¢

Mauve fls; tr to 15 ft; S. A

—*purpurea*.

BAUH-13. 25¢

Small Indian tree; orchid-like fls; bright rose; (X); 75 seeds to oz; Oz. \$2.00.

—*alba*.

BAUH-14. 40¢

Each seed comes in during July each seed in warm water for 4 hours. Oz. \$2.00.

—*tomentosa*.

BAUH-15. 40¢

St. Thomas Tree. Sh to 15 ft yellow fls with a red blotch on petal; from E. Af; (X).

—*acemosa*.

BAUH-17. 35¢

Bush-like tr, hanging branches; yellow fls in loose racemes; India. Oz. 95¢.

—*variegata*.

BAUH-18. 30¢

Mountain Ebony, Orchid Tree. One of the most beautiful Himalayan trees; large Azalia-like fls; (IX).

—*alba*.

BAUH-18A. 40¢

New crop seed February.

—*Mixed*.

BAUH-X. 25¢

BEANS: Ornamental.

Only those that are grown for ornament are listed here.

—*Scarlet runner*.

BEAN-1. 25¢

—*climbing* with scarlet fls; 10 ft; TA; 30 seed to lb. Oz. 40¢; lb. 95¢.

BEAUFORTIA.

(beau-FORTH-ee-ah)

Colorful plants for light soils; full sun; do not disturb the roots.

—*squarrosa*.

BEAF-7. 25¢

BEAUMONTIA.

(beau-MON-te-ah)

Apocynaceae. Vines native of East India with showy funnelliform fls in terminal cymes; (X).

—*grandiflora*.

BEAM-1. 40¢

Herald's Trumpet. White trumpet fls; 5" long and broad; fragrant; creeper; 160 seeds per lb. Oz. \$1.00; lb. \$10.00.

BEGONIA

(be-GON-ee-ah) Begoniaceae. This is a popular plant, especially for pot culture. The seed is rather small and should not be covered with soil; care must be used in germinating them and the casserole method is usually best for small lots. Begonias are divided into three classes: fibrous rooted, tuberous rooted and rhizomatous.

SEMPERFLORENS: Easy to grow, making excellent flowering pot-plants. Sow seed in May, which makes good plants by fall; 55 deg. F. is good germinating temperature. C-40.

FIBROUS ROOTED:

—*A.beri Martin*.

BEG-2T. 50¢

Carmine flowers.

—*Christmas Cheer*.

BEG-2C. 50¢

A Christmas red; a fine variety.

—*Erfordia*.

BEG-2E. 50¢

A dainty rosy carmine variety.

—*Gow*.

BEG-2G. 50¢

Improved Fire Sea; brilliant scarlet and dark foliage.

—*Gus' av Knaake*.

BEG-2K. 50¢

A strong grower in a fiery crimson.

—*King of the Reds*.

BEG-2. 50¢

Dwarf, bright scarlet and bronze foliage.

—*Rose de Bo's de Veaux*.

BEG-2V. 50¢

A compact rose variety.

—*Snowball*.

BEG-2W. 50¢

Pure white and green foliage.

—*Salmon Queen*.

BEG-2Q. 50¢

Salmon-red and dark foliage; popular.

—*Verona*.

BEG-2N. 50¢

A fine scarlet flower.

—*White-marchen*.

BEG-2M. 50¢

Carmine-rose flowers and green foliage.

—*Blend of Varieties*.

BEG-2X. 50¢

Trade packets holding 3 times the quantity of seed for \$1.00 each.

SEMPERFLORENS GACHUIS:

Compact plant, especially suited for pot culture in the greenhouse where a dwarf plant is needed; they can be used

in bedding; C-40.

—**Bal's Dark Rose.**

—**Ball's Red.**

—**Carmen.**

Bright rose and bronze foliage.

—**Indian Bride.**

The first dark leaved, pure white Begonia; contrast between flower and leaves gives a special effect; dwarf and compact.

—**Indian Maid.**

A nice bright scarlet with bronze foliage.

—**Luminosa.**

Deep scarlet and bronze foliage.

—**compacta.**

An extra dwarf strain of the above

—**Prima Donna.**

Rose turning to carmine.

—**Radio.**

A large flowered carmine-scarlet.

—**White Pearl.**

—**Blend of Above.**

Trade packets containing 3 time the regular packet for \$1.00 each.

TUBEROUS ROOTED:

Seed can be started in Feb. in a 60 deg. F. house. Seed is small; use sand and leaf mould, equal parts; press seed into soil carefully, cover with glass; C-39.

—**Single Mixed.**

Seed can be supplied in the following separate colors, European grown seed; new new crop harvested during December: Dark Blood Red; Bright Scarlet; Brilliant Rose; Deep Orange; Golden Yellow; Pure White; Copper-red and Salmon.

Pkt. 50¢; 1/64 Oz. \$4.00. Any color.

—**Double Mixed.**

The double flowered strain can also be had in the following separate colors:

Dark Blood Red; Bright Scarlet; Brilliant

White; Copper-red and Salmon.

PRICE: any color. Pkt. 50¢; 1/64 Oz. \$2.75.

VETTERLE and REINELT STRAIN

This seed is direct from Vetterle and Reinelt; original seed and can be had in their packets if requested.

HANGING TYPE:

—**Orange.**

—**ose.**

—**Mixed.**

BEG-158VWG. \$1.00

BEG-159VWZ. \$1.00

BEG-125VHX. \$1.00

BEGONIA SPECIES:

The seed of most Begonia species is not plentiful and supplies in many cases depends on those growing them as a hobby; We will appreciate any one able to save good seed if they will contact us on the matter.

—**gigantea.**

Small white or pale pink flowers; good for pots or bedding.

—**REF type.**

Many foliage variations; popular pot plant.

—**alkemaensis.**

—**Begonia Blend.**

This contains all kinds of Begonias.

BEG-54. 50¢

BEG-117. 50¢

BEG-151. 50¢

BEG-X. 50¢

PELSCHMIEDIA.

—**awa.**

BEL-15. 50¢

BELAMCANDA.

(bel am-K A N dah) Iridaceae Iris-like perennials with stout root stalk, grown for their flowers and blackberry-like fruits which can be made up into dried material. Easily grown in full sun; best in sandy soil.

—**chinensis.**

Black-berry Lily; 4 ft; orange spotted red fls; HP.

—**Rosie:** Mailed during Sept.; 3 for 75¢; 12 for \$1.60.

BELLADONNA: see **ATROPA.**

BELLIS

Compositae. Annuals and perennials growing in tufts; easily grown from seed sown in early spring for flowers the next season; favorite for edging or can be planted in the lawn; C-31; LW.

SUPER GIANT STRAIN: Special select-

ion; fls measure up to 2" ac; nice pot plant.

—**White.**

—**Deep Pink-Rose.**

—**Cerise-Red.**

—**Mixed.**

Any above: 1/2 Oz. \$2.25.

Any above: 1/2 Oz. \$2.25.

strain.

—**White.**

—**ose.**

—**Crimson.**

—**fixed**

Any of above: 1/2 Oz. \$2.00.

MINIATURE TYPE:

Small flowered type, very dainty for edging; HB.

—**Rose.**

—**White.**

—**Miniature Mixed.**

BELL-5W. 25¢

BELL-5Z. 25¢

BELL-8W. 25¢

BELL-8Z. 25¢

BELL-8R. 25¢

BELL-8X. 25¢

BELL-7Z. 25¢

BELL-7W. 25¢

BELL-7X. 25¢

MONSTROSA TUBULOSA: Quilled pet-

—**Rose Beauty.**

—**White Beauty.**

—**Montrosa Mixed.**

BELL-41. 25¢

BELL-4Z. 25¢

BELL-4W. 25¢

BELL-4X. 25¢

MONSTROSA TUBULOSA:

Quilled petals; very showy.

—**Bernina.**

BELL-6B. 25¢

CHEVREUSE: An extra large flowering

White changing to pink; double.

—**Fra.**

Double dark red.

—**lutea.**

Rich yellow fls.

—**Pure Rose.**

—**Tiflis.**

Double carmine-rose.

—**Tubulosa Blend.**

Any of above: 1/2 Oz. \$2.00.

PE ANNIS:

The true or English Daisy; 6"; popular spring flowers; HP.

—**double.**

An extra double bright red

—**Rose.**

Same as a pure rose.

—**monterosa.**

A pure rose; fine.

—**Vesuvius.**

Nice rufy-red.

—**Rosa.**

White with delicate rose centers

—**Scabell.**

Double white

—**Perennis Blend.**

Any of above: 1/2 Oz. \$2.00.

BELLS of IRELAND: see **Molucella laevis.**

BERRERIS.

Blackberry. Berberidaceae. Well known shrub of great ornamental value and easily grown from seed sown in the fall when they germin-

(BER-ber-is)

ate in the spring or sow in the spring; not necessary to sow inside.

- koreaana**. BE 1B-53. 50¢
Flowers in racemes, 1" long; bright red berries; Korea; 6 ft.
- Piperiana**. BARB-66. 40¢
Similar to *Mahonia aquifolium* but lower
- Thunbergii**. BE 1B-84. 25¢
Clean seed \$5.00 per lb.
- atropurpurea**. BE 1B-84. 35¢
Dark scarlet-red lvs. d. b., lb. \$5.00.
- pluriflora**. BE 1B-84. 40¢
More erect and leafy; from selected plants; Oz. \$1.50.

BERCHEMIA.

Rhamnaceae. Twining decid. sh; probably hardy in (V) zone.

- racemosa**. BE 1C-4. 30¢
Greenish fls in 6" long panicles; red fr. turning black; Formosa. Oz. \$2.00.

BERGENIA.

Saxifragaceae. HP forming large clumps or colonies.

- ligulata**. BE 1G-15. 40¢
1 ft; pink fls; large round shining lvs.

BERLANDIERA.

Compositae. Natives of the S. U. S. and Mexico; yellow ray- and disk-flowers; spring and summer.

- lyrata**. BERL-1. 30¢
Covered in spring and summer with yellow fls with black centers, 1" ac; 8"; HA. Oz. 75¢; lb. \$8.00.

BERTOLONIA.

(ber-toh-LOH-nee-uh) Melastomaceae. Dwarf Brazilian plants; flowers in racemes. They are very attractive foliage plants in the GH, the lvs being purplish on under side and different metallic colors above; dense shade, humid atmosphere.

- Lady Clare Amesly**. BERT-6. 60¢
- maculata**. BERT-2. 50¢
Lvs velvety green above, veins bordered with purple or magenta band; fls rose.
- (Seed was short this year—expect more)
- marmorata**. BE 1T-4. 75¢
Lvs streaked with white along veins; fls purple.

BESCHORNERIA.

Amarillidaceae. Mexican evergreen shrubs resembling the Yucca.

- tuberiflora**. BESC-2. 35¢

BESSEYA: see *Synthesis*.

BETA.

Beet. Chenopodiaceae. Ornamental sorts here listed.

- dracaenaefolia**. BETA 5. 40¢
Fine bedding plant; narrow dark crimson foliage.

BETULA.

(BET-yew-luh)

Birch. Betulaceae. Deciduous trees of the North; thrive in moist sandy soils; transplant seedlings after one year's growth.

- Ermanii v. communis**. BETU-7C. 40¢
Tr to 50 ft from Japan; bark grayish white to reddish; Oz. 70¢.
- mandshurica v. japonica**. BETU-22J. 50¢
Japanese White Birch. Oz. 75¢; lb. \$5.00.
- Maximowicziana**. BETU-23. 40¢
Monarch Birch. Tr to 100 ft; bark is flaking; Japan. Oz. \$2.00.
- papyrifera**. BETU-26. 25¢
Canoe or Paper Birch. Oz. \$2.00.

—**pubescens**.

Tr to 60 ft; white peeling bark; Siberia. Oz. 90¢.

—**utilis**. BETU-35. 50¢
Tr to 60 ft; bark was used for paper in ancient times; fresh seed best.

BIDENS.

(BYE-denz) Compositae. Only garden species listed. Burr-Marigolds.

—**dahloides**. COS-10. 30¢
(*Cosmos atrosanguineus*) Black Cosmos; red disk and dark velvety-red rays; per. but grow as annual; June-Oct; sun.

—**coronata**. BIDE-4. 40¢
Heads 2½" ac; rays golden yellow; IV); HA or HB.

—**tripartitus**. BIDE-15. 25¢

BIGNONIA: see *Tecoma*. (Tecomaria).

—**Tweediana**: see *Doxantha Unguis-cati*.

BILLBERGIA.

(bil-BURT-jee-uh) Bromeliaceae. Stemless epiphytic plants of tropical America; lvs in rosettes or clusters; fls showy, blue, in spikes or panicles; it is a showy plant for the GH or as a house plant.

—**Billbergia of Species**. BILL-X. 75¢

BIXA.

(BIX-uh)

Bixaceae. Tropical Amer. trees; grown for its dye.

- Ocellana**. BIXA-1. 30¢
Annatto. Tropical tr. with rose fls 2" ac; fr. reddish brown; (X). Oz. 80¢; lb. \$5.00.

BLOOMERIA.

(bloo-MFER-ee-uh)

Lilaceae. Natives of S. Calif; basal grass-like leaves; flowers yellow, wheel-shaped; they stand down to 20 degrees Far. in well drained soils. Dig corms up after flowering and replant in the fall.

- Clevelandii**. BLOO-2. 40¢
A miniature Bloomeria; nice in RG; HHP.
- Golden Stars**. BLOO-1. 40¢
Pure yellow; 18"; (V).

BOCCONIA cordata: see *Maclaya cordata*.

BOEHMERIA.

(boh-MEER-ee-uh)

Urticaceae. Mostly natives of warm regions; makes nice GH plants for their ornamental fol; (IX).

- nivea**. BOEH-8. 50¢
Ramie; Chinese Silk Plant Sh to 6 ft; fls in panicles to 6" long; China; (IX).

BOLTONIA.

(bol-TOH-nee-ah) Compositae. Resemble wild Asters; easily grown from seed; it makes nice border or wild garden display; good in moist places.

- latisquama**. BOLT-2. 40¢
Masses of white to pinkish Aster-like flowers; showy in masses; good to cut; 5 ft; HP. ¼ Oz. \$1.00.

BOLUSTANTHUS.

(bo-lu-SAN-thus) Leguminosae. One Af. tree suitable for the South.

- speciosus**. BOLU-1. 50¢
Tree Wisteria. Bright blue fls in pendulous racemes; 15 ft.

BOMBAX.

(BOM-bax) Bombacaceae. Large ornamental tropical trees; planted in the far S.

- malabaricum**. BOMB-1. 50¢
Fls 4" ac; fr. 6" long; 100 Seeds \$4.00; 1,000, \$15.00.

Send 25¢ in stamps for Catalog

BORAGO. (bor-A-go)

Boraginaceae. Borage. Medit. plants useful in the garden, rockery and one grown as a herb.

—**officinalis.** **BOAA-3. 25¢**
An attractive plant; nodding heads of sky-blue fls; June-Sept; 2 ft; HA; can start from March to May, space 1 ft; it is an excellent plant for bee food. **Oz. 45¢.**

BORONIA. (bo-RON-ee-ah)

The genus contains some of the loveliest of Australian flowers. Most Boronias like sheltered, well drained places; very hot or cold winds are fatal; very good for GH or house; grow in pots of sandy, peaty soil.

—**ledifolia.** **BOAO-6. 40¢**
Deep pink flowers; dark green leaves; a very beautiful plant.

—**megastigma.** **BORO-7. 50¢**
Fragrant penetrating bloom; found on wet soils; 2 ft; flowers purple, yellow inside; W. Aust. $\frac{1}{4}$ Oz. **\$2.00.**

BOSSIAEA.

Leguminosae. Australian shs; fls red, yellow or orange; hardy in IX zone; ornamental.

—**floriosa.** **BOSS-10. 40¢**

BOTRYCHIUM. (boh-TRIK-ee-um)

Grape Fern, Moonwort. Ophioglossaceae. Mostly fleshy Ferns.

—**virginianum.** **BOTR-11. 50¢**
Rattlesnake Fern. Triangular fronds; lvs 6-12" long.

Plants: 50¢ each; 3, \$1.35. Prepaid.

BOTTONEA.

(bott-ti-OH-ee-ah) Liliaceae. One bulbous plant from Chile.

—**thysa. oloides.** **BOTT-1. 50¢**
(Anthesiana plumosum; Trichopetalum gracile). White fls, $\frac{1}{2}$ " ac; 16 inches; HP.

BOUGAINVILLEA. (boog-in-VILL-ee-uh)

Nyctaginaceae. Easy to grow in any soil and full sun; pot plant in N; very beautiful woody vines.

50 varieties; fresh seed best. 50 seeds **\$2.50.**

—**ly. ias.** **BOUG-6. 50¢**
Seeds from a rich collection of nearly

BRACHYCOME. (bra-KIK-oh-me)

A pretty and easily grown Australian annual, thriving in dry and sunny situation. They are covered with Cineraria-like flowers; good for edging or in the front border; seed sown in Aug. or Sept. will make excellent pot plants in early spring. sow seed in late April where they are to grow; makes a nice pot plant; C-7.

—**iberidifolia.** **BRAC-1. 20¢**
Comes in several shades; June-Oct; 9"; HHA; space 6-9"; germinates 8 days; C-7. **Oz. \$1.30.**

—**Blue Bird.** **BRAC-1B. 25¢**
—**White.** **BRAC-1W. 20¢**
—**Pink.** **BRAC-1P. 20¢**
—**Mixed.** **BRAC-1X. 20¢**

$\frac{1}{2}$ Oz. 60¢.
—**Thomsonii.** **BRAC-12. 40¢**
From New Zealand.

BRACHYCHITON. (brak-ik-RYE-ton)

Australian Flame Tree. (Sterculia) Bright scarlet flowers; very pretty; (X).

ft. sh; China; (IV).
—**acerifolium.** **BRACC-1. 40¢**
Australian Flame Tree. (Sterculia) Flow-

ers bright scarlet; one of the most spectacular of Australian trees; 150 seeds to the ounce; 90 seeds to oz. **Oz. 90¢.**

—**diaco.or.** **BRACC-4. 35¢**
(Sterculia) Lvs 6" ac; fr 6" long. 100 seeds **\$1.00.**

—**p. puleum.** **BRACC-7. 30¢**
Kurrajong. Ornamental Aust trs; fls yellowish white, reddish inside, followed by fruits; (X). **Oz. 90¢.**

BRAILOCACTUS.

—**haseibergii.** **BRAZ-8. 50¢**

BRACHYSEMA.

Leguminosae. Australian shs; nice for warm regions.

—**bracteosum.** **BRAY-7. 50¢**
3 ft; Australia.

BRACHYGLOTTIS. (brak-i-GLOT-tis)

Compositae. Small trees and shrubs hardy in (X) zone; fls in terminal panicles with ray- and disk-fls.

—**repanda.** **BRAG-12. 35¢**
Lvs 1 ft long; bracts white, shining; N. Z. (X); 12 ft.

BRAHEA filamentosa and filifera: see

Washingtonia filifera. Palms.

New crop seed during October and Nov.

—**glauca: see Erythea armata.**

New crop seed during October and Nov.

BRASSAIA.

Araliaceae. Australian tree for far South.

—**actinophylla.** **BRAA-1. 40¢**
40 ft; glossy fol; lvs to 1 ft long; (X).

BRASSICA.

(BRAS-ee-uh) Cruciferae. Mustards. Cool weather plants; all easil grown.

—**nigra.** **BRAS-19. 25¢**
Black Mustard. Main source of table mustard; 6 ft; HA. **Oz. 75¢.**

BRITTONASTRUM.

Labiatae. TP; grown in herb garden.

—**mexicanum.** **B. IT-6. 40¢**
(Cedronella mex; Agastache cana) 3 ft; pink fls 1" long; TP.

BRIZA.

(BRY-zah) Quacking Grass. Ornamental grass grown for bouquets, dried or for specimen planting outdoors; sow seed early; C-17...

—**maxima.** **BRIZ-1. 25¢**
A handsome species; bronze spikelets on slender drooping stems; May-Aug; 1-2 ft; HA; space 9"; C-17.

—**minor.** **BRIZ-2. 20¢**
Smaller and daintier than maxima; 9-12"; HA; space 6"; C-17.

BROMELIADS.

Mostly very nice GH foliage plants in N; grown as pot plants.

BRODIAEA.

(broh-di-EE-ah) Liliaceae. Hardy in the VII zone; used in borders or in pots; soil must be well drained.

—**californica.** **BROD-2. 40¢**
Violet-purple fls; 1 ft; Calif; HP.

—**capitata.** **BROD-3. 40¢**
Now Dichelostemma pulcellum. (!!) Earliest; light blue; HP.

—**coronaria.** **BROD-4. 50¢**
Violet-purple fls; 18"; B. C. to Calif

—**Hendersonii.** **BROD-7. 50¢**
Yellow fl-heads; fls striped brown; very choice; sun or part shade; 4-6"; Ore.

- ixiodes.** **BROD-8.** 50¢
 —**orcuttii.** **BROD-9.** 50¢
 San Diego Wild Hyacinth.
 —**puchella.** **BROD-11.** 30¢
 Erect heads; clear blue fls; 2 ft; sun; HP.
 —**Brodiaea Blend.** **BROD-X.** 25¢

- BROMUS.** (BROH-mus)
 Brome-Grass. Gramineae. Annual and
 perennial grasses.
 —**mol.is.** **BROM-12.** 30¢
 Purple Brome Grass. Australia.
 —**rubens.** **BROM-19.** 30¢
 Red Brome. Australia.
 —**unioioides.** **BROM-21.** 25¢
 Rescue Grass. Annual; 3 ft; forage grass
 in South.

- BROWALLIA.** (broh-WALL-ee-ah)
 Solanaceae. Free flowering half hardy annuals; excellent bedding plants; space 6"; they have intense blue fls; sunny places and good drained soil; start early; they make good pot plants.

- americana.** **BROW-1.** 25¢
 (B. elata; demissa) Fls small, beautiful violet-blue; best started in March at 60 degrees F. As a pot plant, use loamy soil and not firmly; 2 ft; space 1 ft; HHA.
 —**speciosa major.** **BROW-3.** 25¢
 An excellent house plant; blooms both winter and summer; good potting compost best and responds to liquid manure; pinch young plants; sun and light best.

- BRUNFELSIA.** (brun-FEL-zee-uh)
 (brun-FEL-zi-ah) Solanaceae. GH shrubs and trees in the N or grown out doors in the far S. Fls in dense terminal cymes; rich loose compost and liberal feeding while in growth, blooming best if pot bound; 50 degree at night.

- americana.** **B'UN-1.** 40¢
 Lady-of-the-Night. 8 ft. shrub; white fls; very frag at night. 100 Seeds, \$3.50; 1,000 \$9.00
 —**macrophylla.** **B'UN-4.** 40¢
 Alovely spring flowering border plant; Forget-me-not-like fls; indigo-blue HP.
 —**latifolia.** **BRUN-8.** 40¢
 Tropical Amer. tree or sh; fls white to lavender and purple; 2½ ft; sweet scented; HHS.

- BRUNNERA.** (brunn-er-ah)
 Boraginaceae. Similiar to Anchusa.
 —**australis.** **BRUA-1.** 50¢
 Blue Pin-cushion. 1 ft; per; fl-heads blue; Australia.

- BRUNONIA.** (bru-NON-ee-ah)
 Goodeniaceae. Australian genus.
 —**australis.** **B'UO-1.** 30¢
 Mat of dark green lvs; beautiful sky-blue pincussion-like fls, 1" ac on stalks 1 ft high; Australia.

- BRYONIA.**
 Bryonia. Cucurbitaceae. Herbs with fleshy root; sow in fall so seed will be exposed to the frost.
 —**dioica v. alba.** **BRYO-2A.** 40¢
 To 10 ft; fls ¾" ac; HHP.

- BUDDLEJA.** (BUD-lee-ah)
 Butterfly Bush. Leguminosae. Sow seeds over heat in the spring; hardy up into the (IV) zone; they are very pretty; seed sown in late Feb. and lightly covered will germinate freely; seedlings damp off easily, so give air circulation at night; keep pans above other

plants in GH.

- assaiica.** **BUDD-2.** 30¢
 Tender; grow inside from spring sown seed; white.
 —**Colvillei.** **BUDD-5.** 30¢
 Dense spikes of purple fls; 15 ft; (V).
 —**Davidii.** **BUDD-7.** 30¢
 (variabilis). Oz. \$1.00.
 —**Farrei.** **BUDD-8.** 50¢
 Large sh; gray fol; pale mauve fls; (V).
 —**japonica.** **BUDD-11.** 50¢
 Oz. \$2.00.
 —**lindley a.** **BUDD-16.** 35¢
 c.s. Oz. \$1.00.
 —**Buddleja Blend.** **BUDD-X.** 25¢

- BULBINELLA.** (bulb-in-NELL-uh)
 Liliaceae. Perennials with fleshy tuberous roots; basal lvs; fls in dense racemes; S. Af; N. Z; border; rich soils.
 —**Hookeri.** **BULB-4.** 60¢
 3 ft; bright yel. fls, ½" ac in racemes -0" long; N. Z.
 —**robusta v. latifolia.** **BULB-7R.** 40¢
 Bright yellow fls; 1½ ft; S. Af; border.

- BULOPHA.** **BULO-7.** 40¢
 —**Zeyhene.** Native of South Rhodesia; (IX).

- BUPHTHALUM.** (bewf-THAL-mum)
 —**salicifolium.** **BUPH-23.** 35¢
 Neat border plant; golden yellow fls; root-runner; 2 ft; HP. ½ Oz. 60¢.

- BUPLEURUM.** (bew-PLOOR-um)
 Umbelleferae. Thorough-Wax. Ornamental shrubs and plants.
 —**fruticosum.** **BUPL-2.** 40¢
 Sub-sh; 6 ft; umbels 4" ac; S. Eu.

Burnet, Garden. see *Sanguisorba officinalis*.

- BUTIA.** **BUTI-9.** 50¢
 Yatay Palm. Palmaceae. Hardy in (IX) or Gulf Coast.
 —**Yatay.** (Cocos Yatay) Native of Argentina.

- BUXUS.** (BUX-us)
 Box. Buxaceae. Evergreen sh. used for edging and hedges, thriving in shady places and in well drained soils; hardy up to zone V.
 —**micrphylla.** **BUX-4.** 35¢
 (japonica) 5 ft. Oz. 75¢.

CACALIA: see *Emilia*.

CACTI

The following list of Cactus species is really a rare list and not often offered; I will be able to enlarge this list in the next issue in December. In many species there is but a few packets and it will be well to list a few substitutes, when ordering.
WS: suitable for window sill culture;
CG: cool greenhouse; **WG:** warm house.

CACTUS BLEND

An extra fine blend of many Cacti, both American and foreign genera.

- PRICE:** **CACT-X.** 50¢
 —**Small Types Mixed.** **CACT-SX.** 50¢
 Small types grown in the S. W., U.S.A.
 —**Mound Types.** **CACT-MX.** 50¢
 A columnar species much like *C. azureus*.

This is a popular name for over 100 genera. Seeds are offered under their proper headings and we will try to list here each genus for which we have seeds.

Following is a list of the Cacti listed in this issue; for details see under their proper place....This list consists, also, of succulent as well as atone and mimicry plants.

CACTI SEED OFFERED

ACANTHOCEAEUS.	LEUCHENBERGIA.
BAILLOCACTUS.	MALACOCOA PUS.
CEPHALOCEAEUS.	MAMMILLARIA.
CEREUS.	MELOCACTUS.
CORYPANTHA.	NEOLLOYDIA.
CRASSULA.	NOTOCACTUS.
LELOSPERMA.	OROECE EUS.
DOLICHOTILE.	PILLANSII.
ECHINOCACTUS.	PILOCE EUS.
ECHINOCEAEUS.	REBUTIA.
ESPOSTOA.	SELENICEREUS.
FAALEA.	SETICEHEUS.
GIBBAEUM.	STENOCACTUS.
KRAZIA.	THELOCACTUS.
LEMAIREOCEREUS.	

STONE and other MIMICRY PLANTS

ARGYRODE MA.	HE EO A.
CHEI IDOPSIS.	LITHOPS.
GIBBAEUM.	PLEIOSILOUS.
DINTHEANTHUS.	

OTHER SUCCULENT PLANTS

ALOE.	RAWOATHIA.
ANACAMPSEROS.	HE EAOA.
ARGYRODE MA.	LAMPANTHUS.
CARPANHEA.	NANANTHUS.
CARPOBLOTUS.	ODONTOPOHOSUS.
CISSUS.	OSCUATHIA.
CEPHALOPHYLLUM	OTHONNA.
CHEI IDOPSIS.	PIQUETIA.
CYLINDROPHYLLUM	PUYA.
DROSANTHEMUM.	RHINOPHYLLUM.
DIDYMOLOTUS.	SEMANTHE.
ECHINUS.	TITANOPSIS.
FAUCA IA.	VANHEERDIA.
GLOTTIPHYLLUM.	
MESEMBRYANTHEMUM.	

Sow seed in pots or pans; use plenty of broken pots in bottom for drainage; medium: very fine peat dust or leaf mould, passed thru a fine screen; or both can be mixed together with ordinary course sand; equal parts. It pays to heat the soil that it be sterilized; place seed on top of soil; do not cover seed but just press down with the finger; set pans in warm water to soak well; repeat when soil becomes dry again.

Do not let soil dry out too much till the seedlings appear; germination usually takes place in 10-20 days but may be as long as 3-4 months. Keep in warm place with a little shade; watch pots when in water so that it can be removed just as moisture shows on the surface. Seed can be started any month but April and May are best for the beginner. Note the list of books offered on Cacti culture; there is not another such complete selection offered anywhere.

BOOKS ON CACTI: In the book list you will find some very choice books, some of them recent printings of German authors; all are recommended.

NOTE: I would like to hear from any one growing or collecting Cacti to any extent. Also information that can be added to the

text. will be appreciated.

CAESALPINA.

(sez-al-PIN-ee-ah) Leguminosae. Trees and shrubs in tropical regions, very ornamental and planted in the far South; soak seeds in warm water, for 12 hours before planting; transplant at sign of first true leaf as they dislike disturbing.

—coriaria. CAES-2. 50¢
(Libia coriaria) Divi-Divi. 30 ft; yellow fls. 100 Seeds \$3.00; 1,000, \$15.00.
—Gilliesii: see Poinciana Gilliesii.
—mexicana. CAES-8. 50¢

Shrub to 18 ft; yellow fls; (X)
—pulcherrima: see Poinciana pulcherrima.
—spinosa. CAES-14. 50¢
(C. tinctoria, Coueteria tinctoria, Tara spinosa) Tr or sh; yellow fls in dense racemes to 8" long; (IX). Oz. 95¢; lb. \$8.00.

CAILLIEA.

—nyassana. CAIL-2. 30¢
Shrub with Acacia-like lvs; S. Rhodesia; (IX).

CAJANUS.

(kaj-AY-nus)
—Cajal. CAJA-1. 30¢
Pigeon-Pea Tropical shrub; yellow or orange fls; far South. Oz. 75¢; lb. \$5.00.

CALAMPELIS: see Eccremocarpus.

CALANDRINA.

(kal-an-DRIN-ee-ah)
Low growing fleshy plants, grown as annuals in the rocky or for edging. Flowers are orange-yellow and coppery rose to brick-red or crimson-magenta. Best in sunny spot.

—amaranth. CALD-1. 25¢
Vivid crimson-purple fls; compact, 6";
HHB. Oz. \$1.00.
—ciata v. Me. esii. CALD-4. 25¢
Rd Maids. Crimson fls; erect; HA.
—umbellata. CALD-8. 30¢
A gem for chinks in rocks or very sandy or peaty soils; winter kills on clay; scarlet fls to 6"; HA; Peru. ¼ Oz. \$1.00.

CALCEOLARIA.

(kal-se-oh-LAY-ri-ah)
A very large genus from C. and S. America of creepers, herbs and shrubs. All have the pouch or slipper-shape flowers, usually in yellow, often with dots and splashes of other colors. Many are GH plants; they are not hardy in the North.

The best time to start for pot plants is in June; seed is very fine, so use care; mix seed with some sand and sow; do not cover seed but press down—cover pan with glass. Germination usually is about a week or 10 days; prick out into flats, 1" apart, keeping them in a cool moist place. They can be carried over summer, when established in their pots, in a cold frame. C-42; LW; germ. in 12 days.

—C. 2. 40¢
Bright yellow fls; hardy and easy; 5"; HP.

—crenatifolia. CALC-4. 30¢
Yellow with orange-brown spots; GH.

—rubi-rugosa. CALC-4R. 75¢
Small flowered; in best colors; pretty.

—grandiflora tigrina. CALC-9. 75¢
Finest strain of tigered flowers.

—ledeobryda. CALC-10. 50¢
(Perfect Model) A nice form of C. crenatifolia.

—mexicana. CALC-16. 30¢
Pale yellow; HA species; easily grown out doors; cover seed lightly; June-Sept; 1 ft; showy; space 9".

—Florist Small Flowered CALC-10FX. 75¢

The best strain obtainable.

—Florist Mixed. **CALC-FX. 50¢**

CALENDULA

Compositae. Definitely cool weather flowers and in the South should be sown in the fall. They like full sun but do not take well to the burning sun of summer; in the North either start indoors or plant where they are to grow; select the right varieties for greenhouse or out door planting. 2 feet; all HA. (kal-LEND-u-lah)



CALENDULA — Florist Strain

PACIFIC STRAIN:

A recently introduced strain with large beautifully formed flowers; C-2.

—Apricot Beauty. **CALN-7PA. 25¢**

—Cream Beauty. **CALN-7PC. 25¢**

Beautiful cream-white shading.

—Lemon Beauty. **CALN-7PL. 25¢**

Pure lemon color; long wide petals give the fls a much more graceful appearance with the centers well covered. **Oz. \$1.00.**

—Persimmon Beauty. **CALN-7PP. 25¢**

True persimmon-orange of unusual brilliance and size with graceful appearance; centers well covered; C-2. **Oz. \$1.00.**

—Pacific Mixed. **CALN-7PX. 20¢**

Any above: 1/2 Oz. 60¢; lb. \$9.00.

—Apricot Queen. **CALN-7AQ. 20¢**

A beautiful apricot color.

—Ball's Extra Double. **CALN-7BD. 25¢**

Free flowering, bright double orange; choice GH. variety for winter growing.

—Ball's Gold. **CALN-7BG. 25¢**

—Ball's Masterpiece. **CALN-7BM. 25¢**

Clear orange, dark center; GH variety.

—Chrysantha. **CALN-7C. 20¢**

Large clear buttercup-yellow.

—Campfire. **CALN-7CF. 20¢**

Large brilliant orange with lemon sheen.

—Frilled Beauty. **CALN-7FB. 20¢**

Double orange with frilled petals.

—Indian Maid. **CALN-7NM. 20¢**

NEW. Pale orange with distinctive maroon eye; showy.

—Mammoth Orange. **CALN-7MG. 20¢**

Best extra large deep orange.

—Market Tangerine. **CALN-7MT. 20¢**

Deep tangerine-orange; showy.

—Meteor. **CALN-7M. 20¢**

Double orange with yellow stripes; fine.

—Orange King. **CALN-7GK. 20¢**

(Special Strain) Rich deep orange-red, dark center, continuously grown and selected for over 25 years; Extra good for florist use. **Oz. \$1.00; 4 oz. \$3.75.**

—Orange Fantasy. **CALN-7GS. 20¢**

A crested type in orange; different.

—Sunshine.

Golden yellow; curled petals; long stems; good for cutting.

—Radio.

Double quilled petals; orange-scarlet.

—Radio Golden Beam. **CALN-7 G. 20¢**

Pure golden yellow; curled petals.

—Yellow Colossal. **CALN-7YC. 30¢**

Large Chrysantha type and more double.

—Florist Varieties Mixed. **CALN-7FX. 20¢**

Oz. 50¢; 4 oz. \$1.00.

—Art Shades Mixed. **CALN-7ASX. 20¢**

In light pastel shades.

ANY ABOVE: Oz. 50¢; 1/2 lb. \$2.00.

—Mixed Garden Varieties. **CALN-GX. 20¢**

Oz. 40¢; 4 oz. 85¢.

MINATURE TYPES:

—Goldfinch. **CALN-7CG. 30¢**

Golden orange with lighter edge. **Oz. 80¢.**

—Canary Bird. **CALN-CC. 30¢**

Canary yellow, petals tipped brown. **Oz. 80¢.**

CALIFORNIA POPPY: see *Eschscholtzia*.

CALLA LILY: see *Zantedeschia*.

CALLIANDRA.

(kal-lee-AND-ruh)

Leguminosae. (*Anneslia*) Tropical shrubs grown in the far South or in the GH farther North.

—surinamensis. **CALI-7. 50¢**

Large evergreen sh or tr from Dutch Guiana, bearing powder-blue-like fls, and white stamens with brightly tinted pink tips much resembling the Mimosa tree (*Albizia julibressin*); very pretty; (X). Germinates about 5 days.

CALLICARPA.

(kal-lik-KARP-ah) Bush. Very attractive sh and trs having small pink, bluish or white flowers in axillary clusters followed by very showy berry-like fruits; hardy in (V) zone.

—americana. **CALE-1. 35¢**

French Mulberry. Sh to 6 ft; May-June; fr violet; (V).

—Bodinieri V. Gi'aldii. **CALE-3G. 50¢**

Shrub to 10 ft; pink fls in dense cymes to 1 1/2" ac; July-Sept; fr violet; (IV). **Oz. 90¢; lb. \$3.00.**

—dichotoma. **CALE-5. 50¢**

(purpurea); dense shrubby species; pretty silver-green lvs; HSh. 3 ft. **Oz. \$1.50.**

—japonica. **CALE-7. 50¢**

5 ft. sh; pink or whitish fls in Aug; fr. violet; (IV). **Oz. \$1.25.**

CALLIOPSIS

Compositae. The annual varieties of *Coreopsis* are listed here; the perennials are under *Coreopsis*. These are hardy annuals and make fine displays in the border as well as excellent cut-flowers. Sow seed early in April where they are to grow and thin to 6" of strong growth; C-7. (kal-lee-OP-siss).

DRUMMONDII. Most of the garden sorts belong to this species. Annuals to 2 ft; flower heads 2" across and on long stalks; flowers are rays; C-7. Golden Wave.

—Gold Crest. **CALP-7GC. 20¢**

Semi-double, crested, rich golden flowers.

—Golden Crown. **CALP-7GN. 20¢**

Crested, rich golden yellow. 1/2 Oz. 30¢.

—Golden Wave. **CALP-7GW. 20¢**

Pure yellow with dark brown center.

—Semi-dwarf Mixed. **CALP-7DX. 15¢**

Plants 2-2 1/2 ft; in all colors.

—Tall Varieties Mixed. **CALP-7TX. 15¢**

- Double and semi-double; fine for garden.
 —**bicolor marmorata.** CALP-25M. 20¢
 Bright golden, marbled with wallflower-red.
 —**Crimson King.** CALP-7CK. 20¢
 Dwarf variety with red fls. ½ Oz. 30¢.



CALLIOPSIS—GOLDEN CROWN

- Golden Ray.** CALP-7GR. 20¢
 Dark purplish brown center; broad golden petals; dwarf.
 —**rigida speciosa.** CALP-7N. 20¢
 Quaint reddish maroon flower.

TINCTORIA: These showy border plants are also good for cut-flowers; the rays are yellow, crimson-brown at the base and the disk brownish purple; HHA; 12-18".

- bicolor.** CALP-6D. 20¢
 Yellow and brownish purple fls; 24";
 —**nana.** CALP-6BC. 20¢
 Dwarf growing; golden yellow and crimson.

- Hybrids.** CALP-6DX. 20¢
 Double flowers in many colors.
 —**Dazzler.** CALP-6Y. 25¢
 Dwarf growth! scarlet with yellow.
 Oz. 75¢.

Rich brilliant colors; 9 inches.

- Golden Sovereign.** CALP-6G. 25¢
 A new dwarf English variety. ½ Oz. 35¢.

- Tiger Star.** CALP-6TS. 20¢
 Rich bronze, striped and mottled yellow; 1 ft; pretty. ½ Oz. 30¢.

- Mixed Tinctoria Varieties.** CALP-6X. 15¢
 —**Dwarf Goblin Mixed.** CALP-6GX. 20¢

½ Oz. 30¢.

- Dwarf Mixed.** CALP-DX. 20¢
 ½ Oz. 30¢.

OTHER SPECIES:

- cardaminefolia.** CALP-8. 20¢
 Bicolor flowers in yellow and brown, 1" across; 2 ft; HHA.
 —**Blood-Red.** CALP-8B. 25¢
 —**nueceusis.** CALP-18. 25¢
 Yellow rays, dark lined, heads 2" across; 2 ft; HHA.

CALLIRHOE. (kal-LIHR-oh-ee)

Malvaceae. Poppy-Mallow. N. A. annuals and perennials with picturesque lobed foliage and showy flowers in pink, red or reddish purple; long in bloom; thrives in poor and dry soils; sow seed in Feb. at 45 deg. F; sow as soon as seed is available; germinates in about 21 days.

- involuta.** CAL-2. 30¢
 Wine Cup. Claret-crimson; cup-shaped; June-Sept; 3 ft; treat as HHA; space 12".

USE SYMBOLS WHEN ORDERING SEED

CALLISTEMON. (kal-liss-STEEM-on)

Bottle-brushes. They are among the most showy and decorative of Australian shrubs and trees; cut back well after flowering to keep them shapely; (Myrtaceae); (IX).

- linearis.** CALS-2. 40¢
 6-8 ft; pointed needle-like lvs; deep red fls tipped golden yellow; one of the best; resistant to dry conditions; S. A.-N. S. W.

- citrinus.** CALS-3. 30¢
 (C. lanceolata) Fls with bright red stamens; 30 ft; (VIII); Australia.

- lacinus v. carmine.** CALS-11. 40¢
 8 ft; Australia.

- linearis.** CALS-12. 30¢
 Heavily blooming pin-flowered Bottle-bush; very choice; fls with red stamens; 10 ft; (VIII).

- pumila.** CALS-12P. 40¢
 2 ft; Australia.

- linearis v. pumila.** CALS-12P. 40¢
 4-6 ft; deep red fls; warm conditions; N. S. W.

- pinifolius.** CALS-16. 40¢
 6 ft; Australia.

- rigidus.** CALS-18. 40¢
 5-8 ft; shrubby; red fls; prune well in autumn; dry conditions; N. S. W.

- rugulosus.** CALS-13. 25¢
 (coccineus) 10-15 ft; pinkish red fls, tipped with gold; moist sandy soil; S. A.

- salignus.** CALS-15. 35¢
 Tr to 30 ft; white fls with yellow or pink stamens; Australia.

- speciosus.** CALS-17. 40¢
 Very showy species.

- viminalis.** CALS-22. 35¢
 Tr to 4 ft; pendulous habit; fls scarlet in dense spikes; Australia.

- violacea.** CALS-78. 40¢
 Mauve-purple fls; tall dense shrub.

- Mixed.** CALS-X. 25¢

CALLISTEPHUS: see **Asters.**

CALLITRIS.

Cypress Pine. Cupressaceae. Ev. trs of Australia; suitable in Fla, Calif and S. Tex.

- calcarata.** CALI-5. 50¢
 40-50 ft; Australia.

CALLUNA. (kal-LEW-nuh)

Heather. Ericaceae. One hardy evergreen shrub with many varieties.

- vulgaris.** CALL-1. 35¢
 Rosy pink fls; 2 ft; late summer; HP.

Oz. \$1.00; lb. \$7.00.

- St. Patrick.** CALL-1S. 40¢
 Red-brown foliage; 4-6"; Aug.-Sept.

CALOCEPHALUS.

Compositae. Australian annuals; fls in terminal cluster heads.

- citreus.** CALL-5. 40¢
 Grass-like silvery basal lvs; clear yellow globular fls on slender stems, heads ½" long; 2 ft; blooms from sp till fall; Aust.

CALOCHORTUS. (kal-oh-KORT-us).

Liliaceae. Mariposa-Lily; Globe Tulip W. Amer. plants forming corms and bearing bell-shaped lilac, yellow or white flowers. They are also known under Star Tulip; Sego Lily; Fairy Lanterns. They are of great beauty, hardy but need protection from winter heaving; sunny places; light soil; treat as you would the regular Tulip.

- Hybrid.** CALO-21. 25¢
 A possible hybrid between C. concolor and C. Weddii.

- Superba.** CALO-6HX. 25¢

- Excellent strain of bicolor hybrids.
Maweanus. CALO-26. 30¢
 Best of the genus; lavender; RG; 4"; HP.
Calochortus Blend. CALO-X. 25¢

CALODENDRUM. (kal-oh-DEN-drum)

- capense. CAL-1. 50¢
 Oape Chestnut. A beautiful tree with dark green foliage and showy flowers, light rosy lilac with purple dots; grown in the S. 50 seeds to ounce.

CALONYCTION.

- (kal-oh-NIK-tee-on) Convolvulaceae.
 Moonflower. Tropical twining plants that are grown as annuals in the N; notch seeds before planting for best germination; they make pretty vines; germ. 14 days

- aculeatum. CALY-1. 25¢

- (I. ona-Nox) Common Moonflower; white.

- Black Seeded. CALY-1B. 20¢

- Tuba. CALY-5. 30¢

- Similar to C. aculeatum; white fls, 6" long; S. Fla; (X).

CALOPHYLLUM.

- Guttiferae. Tropical trs with leathery lvs; useful in S for oil, gum and ornat.

- inophyllum. CALM-9. 40¢
 K. oil. 60 ft; white, frag. fls;

CALOTHAMNUS. (kal-oh-THAM-nus)

- Myrtaceae. Australian shrubs; showy fls in clusters or spikes.

- asper. CALH-1. 40¢

- Lovely pine-needle Bottle-brush; superb red fls all year in Calif; drought resistant; best all-round tropical shrub.

- sanguineus. CALH-26. 40¢

- Silky Leaf Blood Flower. 5-10 ft; vivid red tassel-like fls; best in sandy soil; W. A.

- pinnatifidus. CALH-32. 40¢

- Prettiest of all species; soft hairy pine-like lvs, showy; rich deep red fls; followed by woody seed cases; W. A.

CALPURNIA. (kal-PUR-ne-ah)

- Leguminosae. Trees and shrubs; flowers in racemes; native of S. Af. and grown out doors in the S and in the GH in the N. They are very ornamental.

- aurea. CALU-1. 30¢

- African Laburnum. 15 ft; yellow flowers.

CALTHA. (KALTH-ah)

- Ranunculaceae. Small succulent perennials thriving in marsh land near running water but they can be grown in moist sections of the garden. They are long lasting when cut. Slow to germinate.

- biflora. CALT-1. 30¢

- White buttercups; RG; full sun; HP.

- leptosepala. CALT-4. 25¢

- Similar to C. bicolor; 4"; HP.

- scapoza. CALT-8. 25¢

CALYCANTHUS.

- (kal-ik-K A N T H-u-s) Calycanthaceae.
 Sweet Shrub. N. Am. shrubs with fragrant brownish fls; best in a rich well drained soil.

- acuminatus. CALS-1. 40¢

- floridus. CALS-4. 50¢

- Carolina Allspice. 10 ft; fls dark reddish brown, 2" ac; (V). Oz. \$1.00.

- praecox: see *Chimonanthus praecox*.

CALLITRIS. (kah-LY-tris)

- Myrtaceae. About 42 species, all from Australia; mostly W. A; heath like shs;

hardy only in South.

- tetragona. CALX-4. 40¢
 3-5 ft. sh; white fls, pretty; one of the gems; good in sandy and well drained soils; Australia.

CAMASSIA.

- (ka-MASS-ee-ah) Liliaceae. N. Am. bulbous plants with blue and white flowers in graceful racemes and narrow grass-like foliage; very hardy; plant in groups; slow to germinate; C-24.

- esculenta. CAMA-3. 25¢

- Erect spikes of pale blue; cuts; 2 ft; HP.

- Leichtlinii. CAMA-6. 25¢

- Pretty purple to creamy white; 18-24"; HP.

- Quamash. CAMA-7. 25¢

- Blue fls; 18"; May; fine; HP.

- Camassia Blend. CAMA-X. 25¢

CAMELLIA.

- ((kam-MELL-ee-uh) Theaceae. Ev. trees and shrubs. Popular ornamentals for the South or GH; seedlings makes the best stocks for grafting. Sow seed in spring, as a rule, in sandy soil with enough peat to give a 4.5-5.5pH. Soak seed over night in warm water; cover 1" with soil; germinates in 2 or more weeks.

- sinensis. CAME-8. \$1.00

- Tea. There are many strains or types grown, most all being unsuitable for growing indoors in temperate zone. The type I offer here is best suited for GH or conservatory growing, blooms well, has smaller leaves; germination is lost very rapidly and thus it will be best to order before seed arrives late in Oct. or November. Soil should be acid (pH about 5.0); water must be free of calcium (use rain water); then grow as for Camellias; seeds are large; soak seed ½ day in soft water; must be air mailed if you live any distance.

- japonica. CAME-3. 50¢

- The common Camelia of our South; it 25-40 seeds per ounce.

- comes in many varieties. Oz. 50¢; lb. \$2.50.

- japonica fl. pl. CAME-3D. 40¢

- This is a double flowered variety. 100

- seeds 75¢.

- reticulata. CAME-7. 50¢

- Sh with large single fls 7" ac; crimson-rose; China; Oz. 75¢; lb. \$4.60.

- Sasanqua. CAME-10. 50¢

- (Thea Sasanqua) Sh; white to red fls 2"

- ac; single; China; 35 sd. to oz; Oz. 65¢; lb.

- \$1.65.

CAMPANULAS

- (kam-PAN-u-lah) Bell-flowers. Biennials, perennials and a few annuals. They are excellent for the border and some for the RG and all make nice cut flowers. They can be started early indoors or as late as July; a covering of leaves for winter protection is good; prefers a light loamy soil. For a good book on all species order Crook's "Campanulas", \$5.00. It is good.

- It is recommended to sow seed of the annuals direct to where they are to grow; nearly all are definitely lime-haters and all the perennials, excepting the Himalayan species are best sown late in the fall.

- MEDIUM:** Canterbury Bells. Single flowers; 3 ft; June-July; HB; C-29; LW.

- Blue.
 - Lilac.
 - Rose.
 - Blend.
- 1/4 Oz. 30¢; Oz. 90¢. Any above.

MEDIUM, DOUBLE:

- Blue.
 - Dean's Hybrids.
 - Double and single flowers.
 - Rose.
 - White.
 - Blend of Above Varieties.
- 1/4 Oz. 60¢; Oz. \$2.00. Any of above.

CALYCANTHEMA: Cup-and Saucer; 2 1/2 ft;

HB; (C-29).

- Blue.
 - Lilac.
 - Rose.
 - White.
 - Double & Single Mixed.
 - Blend of Above Varieties.
- 1/4 Oz. 50¢; Oz. \$1.60. Any of above.

CAMPANULA SPECIES:

- Allionii.
- Aucheri.
- barbata.
- betulaefolia.
- carpatia.
- White.
- turbinatea.
- cephallenica.
- collina.
- group; loose growing; fls larger than type.
- cochleariifolia.
- (pusilla) Pretty RG plant; 2-8"; fls nodd-fragile blue fls.
- Elatinus v. garganica.
- Formanekiana.
- fragilis.
- garganica: see *Elatines*.
- latifolia.
- macrantha.
- Leutweinii.
- persicifolia.
- C-23 or 24.
- White.
- alba fl. pl.
- Blue fl. pl.
- Telham Beauty.

- CAMP-1B. 25¢
- CAMP-1L. 25¢
- CAMP-1Z. 25¢
- CAMP-1X. 25¢

- CAMP-2B. 25¢
- CAMP-2DX. 25¢

- CAMP-2Z. 25¢
- CAMP-2W. 25¢
- CAMP-2X. 20¢

- CAMP-3B. 25¢
- CAMP-3L. 25¢
- CAMP-3Z. 25¢
- CAMP-3W. 25¢

- CAMP-3DX. 20¢
- CAMP-3X. 20¢

- CAMP-7. 60¢
- CAMP-12. 50¢

- CAMP-13. 25¢
- CAMP-15. \$1.00

- CAMP-20. 25¢
- CAMP-20W. 25¢

- CAMP-20T. 25¢
- CAMP-23. 50¢

- CAMP-25. 25¢
- CAMP-25. 25¢

- CAMP-24. 30¢
- CAMP-30G. 30¢

- CAMP-37. 25¢
- CAMP-38. 30¢

- CAMP-51. 25¢
- CAMP-51M. 30¢

- CAMP-53. 50¢
- CAMP-71. 40¢

- CAMP-71W. 25¢
- CAMP-71DW. 30¢

- CAMP-71B. 25¢
- CAMP-71T. 25¢

Fine blue variety; due to chromosome doubling, is larger in all its parts and more vigorous. 1/4 Oz. 75¢.

- Poscharskyana.
- Lovely pale blue fls; 4"; HP.

- Pyramidalis.
- Chimney Bellflower. Fine border; pale blue; 3 ft; HP.

- alba.
- Either color: 1/4 Oz. 50¢.

- Raineri.
- 3-4" high; deep violet fls; Alps; HP.

- Rapunulus.
- Rover Bell-flower. An invading Cam-

panula; erect; 3 ft; not recommended for gardens on account of its invasive nature but it pretty in waste places; HP.

- rotundifolia.
- Harebell. Slender, graceful habit; pale blue; 18"; HP; LC.

- Olympic.
- Large beautiful deep lavender fls; 2 ft; HP; LC.

- sarmatica.
- Very distinct dwarf species; violet nodding fls; 18"; HP.

- Sartori.
- White narrow bell-shaped fls; 10"; good crevice plant; HP.

- Speculum: see *Specularia*
- eris.

- Tommasiniana.
- Nodding violet fls; stem not upright; 1 ft; HP.

- Rock Garden Species.
- Low growing types for the rockery.

- Campanula Blend.

CAMPISIS.

(KAMP-sis)

Trumpet Creeper. Bignoniaceae. Climbing shrub; rich soil; sunny positions.

- grandiflora.
- (Tecoma grandiflora) Chinese Trumpet.

- radicans
- Trumpet Vine. (IV). Oz. 60¢; lb. \$4.00.

CAMPTOSONIS: see under Ferns.

CAMPTOSORUS. (kamp-toh-SOHR-us)

Walking Fern. Polypodiaceae. Ferns that roots at tnps. thus the name; hardy; grown in rocky soils or in wild garden.

- rhizophyllus.
- Walking Fern. Prefers dry shaded rocks; manner of growth suggests steps; evergreen; 4-12 inches.

Plants: 60¢ each; 3, \$1.50. Prepaid.

CANARY-BIRD-VINE: see *Tropaeolum*.

CANDYTUFT: see *Iberis*.

CANNA.

(KAN-noh)

Cannaceae. Tropical summer flowering plants growing from thick fleshy tuber-like roots; they are valued for bedding, their tropical appearing foliage and brilliant flowers making a bold display. File notch in seed before planting and soak in warm water 24 hours; start early in the spring; 4-10 ft.

C. FLACCIDA: The commonly grown type. C-45; about 100 seeds to ounce.

- Crozy.
- Dark leaved sort in vivid pink, red, yellow and orange; TP. Oz. 80¢; lb. \$3.00.

- New Giant Hybrid.
- Oz. 80¢; lb. \$8.00.

Do not write letters on your order; it delays its filling; confuses and tends towards

CAPPARIS.

(KAP-par-iss)

Capparidaceae. Shs and trs; berry-like fr; not hardy in N but can be grown as annuals; would be good on a warm sunny wall in zone (V) or (IV); should always be placed in as warm and sunny position as possible; interesting as well as useful.

—**spinosa.****CAPP-2.** 35¢

Caper Bush. Shrub to 3 ft; grown extensively in the Medit. regions for its flower buds, known as Capers. **c.s. Oz. 60¢; lb. \$2.60.**

CAPSICUM.

(KAP-se-kum)

Solanaceae. Pepper. Under this heading are listed the ornamental Peppers; they make excellent pot plants, and are grown for Xmas plants; requires a warm temperature, sun and fairly rich soil; C-22; germinates 15 days.

—**Everbearing.****CAPS-1E.** 30¢

Good sized bush or tr; grows all year; bears small sized peppers that are edible; good in salads, stews, etc; (X).

—**Florida.****CAPS-1F.** 25¢

Short pointed pods on compact plants.

—**Tom Thumb.****CAPS-1T.** 25¢

Small plant with miniature red pods.

—**Xmas Tree Lights.****CAPS-1CT.** 25¢

Hot pepper grown as a pot plant.

—**Capsicum Mixed.****CAPS-X.** 30¢

A mixture of interesting small fruited sorts; very ornamental and they also make good pot plants; contains some choice new sorts from Germany. $\frac{1}{2}$ Oz. \$3.00.

CARAGANA.

(kar-ag-GAY-nuh)

Pea-Tree. Leguminosae. Shs and small trs; Central Asia; ornamental; sunny places; sandy soil; sow sp or fall; soak seeds; sow thinly but firmly; Feb. planting suggested.

—**arborescens.****CARA-2.** 30¢

Yellow fls; May-June; Sib; 20 ft. **Oz. 70¢.**

CARAWAY: see *Carum Carvi*.**CARDIOSPERMUM.**

(kar-ee-oh-SPERM-um) Sapindaceae. Annuals and perennials, vines hardy in the N and excellent for covering fences or trellises; grows to 10 ft. The seed pods are inflated like balloons; best to sow seeds where they are to grow; light soil and a sheltered spot.

—**Halicacabum.****CARD-3.** 20¢

Balloon Vine. Soak seeds; they take 30 days to germinate; C-8. **Oz. 50¢.**

CARDAMON: see *Elettaria*.**CARDOON:** see *Cynara Cardunculus*.**CARDUUS.**

(KAHR-deus)

Compositae. Plumeless Thistle; Silybum. Vigorous, robust spiny-leaved annuals and perennials with purple tubular flowers; very striking in both flowers and foliage; see also *Cirsium*.

—**benedictus.****CDUS-2.** 20¢

Blessed Thistle. Large yellow heads; sow in April; 2 ft; HA. **Oz. 75¢.**

—**Marianus.****CDUS-3.** 25¢

Silybum Marianum. White fls; 4 ft; HA.

CAREX.

(KAY-reks)

Sedge. Cyperaceae. Grass-like perennial plants; many are ornamental.

—**inversa.****CARE-10.** 25¢

Plants only.

Fraser Sedge. 12-18"; ev; whitish spikes in March-April; shade; rich soil.

PLANTS ONLY: 75¢; 3 for \$1.90.—**tereticauris.****CARE-18.** 40¢

Ornamental native Australian grass with rush-like light green leaves; heads like green knobs; 1 ft; damp places.

CARICA.

(KAY-rik-ah)

Caricaceae. Tropical trees with melon-like fruits; grown in the far South.

—**cundiamarcensis.****CARI-2.** 25¢

Will stand a few degrees of frost and will flourish where the tropical type will not; should grow well even a little north of San Francisco, Calif when planted near trees for frost shelter.

—**Papaya.****CARI-3.** 25¢

Tropical tr to 25 ft; has huge fruits up to 11 lbs; flesh reddish or orange and yellow; edible.

CARLINA.

(kar-LYE-nuh)

Compositae. Grown in the RG or the the RG; large heads of tubular fls; seed can be planted inside in March. Do not allow plants to flower 1st year. If it has no side shoots. If soil is too rich few fls will form.

—**acaulis.****CARL-2.** 25¢

Silver Thistle. Stemless HP with solitary white fls to 6" ac; 9"; C-24; FG. $\frac{1}{2}$ Oz. \$2.00.

CARLUDOVICA.

(kar-jew-dol-VYE-kuh)

Cyclanthaceae. Shrubby plants with Palm-like lvs; grown in GH; sow seeds in milled sphagnum; clean pulp off seed.

—**palmeta.****CARV-7.** 40¢

Fan-shaped; Peru; fiber used in Panama hats; popular in GH.

CARMICHAELIA.

(kar-mye-KEEL-ee-uh)

Leguminosae. N. Z. Broom. A remarkable genus, almost entirely from N. Z. Most species are leafless or nearly so when mature, the branchlets performing the functions of the lvs; (IX).

—**australis.****CARM-1.** 50¢

Erect sh with thin flat branchlets; fls small, pale purple in small racemes; 6 ft; (IX).

—**compacta.****CARM-3.** 50¢

Leafless; small pinkish white, frag fls; very dainty; 3 ft; try it as pot plant in N; (VIII).

CARNATIONS: see *Dianthus caryophyllus*.**CARPANTHEA.**

(car-pan-TEER-ee-uh)

Annual; only one species.

—**pomeridiana.****CARA-V.** 50¢

One of the finest summer bloomers; large, fine rayed, bright yellow or white fls.

CARPINUS.

(kar-PYE-nus)

Hornbeam. Betulaceae. N. hemisphere sh; hardy in N, thriving in ordinary soils; hold in seed bed for 2 yrs; keep moist.

—**Betulus.****CARP-2.** 30¢

European H. Tr to 70 ft; fruiting catkins 5" long. **Oz. 50¢; lb. \$1.50; c.s.**

—**cordata.****CARP-5.** 50¢

Tr to 50 ft; Japan. **Oz. \$1.90.**

—**laxiflora.****CARP-8.** 50¢

Tr to 50 ft; catkins 3" long; Japan. **Oz. 75¢.**

—**orientalis.****CARP-9.** 35¢—**Tschonoskii.****CARP-12.** 35¢

Tr to 50 ft; catkins 3" long; N. Asia. **Oz. 75¢.**

The letter 'F' followed by numbers, as F-10 means it flowers during the 9th to 10th month—Sept. and Oct.

CARPOBROTUS. (kahr-poh-BROH-tus)

Prostrate sh; excellent for outdoor planting during the summer; fls very large and showy.

—*edulis*.

CARO-7. 50¢

CARTHAMUS. (KAHR-tha-mus)

Compositae. Bastard Saffron, Safflower. Spiny leaved annuals; flower heads purplish, yellow or white, making ornamental clumps in the border; germinates in 18 days.

—*tinctorius*.

Orange heads; sow in April; 3 ft; HA.

Oz. 75¢.

CARUM. (KAY-rum)

CARAWAY. Seed used for flavoring cakes, etc; plant in fall, will seed following season; HB; 3 ft.

—*Carvi*.

Lower German variety; improved; prefers an acid sandy soil. **Oz. 60¢; lb. \$1.50.**

CARYOTA.

Fish-tail Palms. Palmaceae. Trop. Palms.

CARYOPTERIS. (kar-i-OP-ter-is)

—*incana*.

Blue Mist.

—*x clandonensis*.

Bright blue fls; compact habit; most decorative species; sh.

CASSIA

Leguminosae. Senna. All are sun lovers and best in a sandy loam soil; very attractive with their finely cut foliage and showy flowers. Woody species are GH plants in the N and the herbaceous kinds may be grown in the border; file a notch in the hard seed coat to hasten germination.

—*aiaia*.

Worm C. Sh to 8 ft; fls in yellow spikes-like racemes.

—*artemisioides*.

Wormwood. Shrub with silky gray lvs; sulphur-yellow fls; TA.

—*australis*.

3-8 ft; buttercup-like fls, 1" ac; moist places.

—*bicapsularia*.

Shrubs to 10 ft; yellow fls; (IX).

—*candolleana*.

Sh covered twice yearly with clusters of golden fls; prune back hard after flowering. **Oz. \$1.25.**

—*corymbosa*.

(A. B. B. B.) Sh to 10 ft; yellow fls; GH.

—*corymbosa v. plurijuga*.

—*didymobotrya*.

Sh to 10 ft; fls in racemes, 3/4" long; Trop.

Af; (X); yellow fls. **Oz. 60¢.**

—*eremophila*.

5-8 ft sh; one of the best; dense clusters of bright yellow fls; warm sections; Aust.

—*Fistula*.

Indian Laburnum. Golden Shower. To 30 ft; long hanging sprays of yellow fls in 1 ft. racemes; also called Pudding-Pipe Tr, 100 seeds to oz. **Oz. \$1.25.**

—*fasciculata*.

—*glomerata*.

—*gracilis*.

Pink Shower. Tall tree to 50 ft; weeping habit; peach-pink fls standing up in spurs on the branches; very pretty and good for shade; 50 seeds to oz. **Oz. 90¢.**

—*grandis*, Pink.

—*javanica*.

A lovely pink flowered species

—*laevigata*.

Ornamental shrub; pretty yellow fls; 6 ft; TP.

—*moschata*.

—*marginalis*.

—*marilandica*.

Wild Senna. Massive racemes yellow fls;

July-Sept; 5 ft; HA.

—*multijuga*.

—*nicaraguensis*.

One of the showier trees from C. Am;

yellow fls; TTr; (X).

—*nodosa*.

Jointwood. Tall tr to 50 ft; rich pink fls in clusters along branches; a great sight when in bloom; (X); 125 seeds to ounce.

Oz. \$1.25.

—*occidentalis*.

—*renigera*.

—*Roemeriana*.

Orange-yellow fls in terminal corymbose racemes; 1 1/2 ft; HP; Texas. **Oz. \$1.00.**

—*siamea*.

Kassod. Tr to 40 ft; bright yellow fls.

—*Sturtii*.

5 ft sh; yellow fls in dense sprays; stands hot dry conditions; Australia.

—*tomentosa*.

1/2 Oz. \$1.50.

—*tora*.

—*Species Mixed*.

CASS-X. 35¢

CASTANOSPERMUM.

Leguminosae. Tropical trees for the far

South.

—*australe*.

Moreton-Bay Chestnut, Black Bean. Ev. tr to 60 ft; very showy yellow to orange fls in racemes, 6" long; pods 9" long; (X); 100 seeds \$2.00.

CASTANEA. (kas-TAP-ne-ah)

Fagaceae. Chestnut. Showy decid. sh and trs of north temperate zone; for edible fr and ornament.

—*ceratola*.

(Japónica) Japan C.; 30 ft tr; Japan. **Lb. \$1.00.**

—*sativa*.

(Vercé) Spanish C. Tr to 100 ft; an attractive tree., **Lb. 60¢; 5 lbs. \$1.75.**

CASTILLEJA. (kas-til-EE-yah).

Scrophulariaceae. Painted Cup. Rare, due

mainly to the difficulty in growing; do not transplant easily. They are showy annuals, biennials and perennials, native of the West.

germination irregular.

—*miniata*.

Flower bract tipped brick-red; fls green edged red; 3 ft; HP.

CAST-19. 30¢

CASUARINA. (kass-yew-uh-RYE-nuh).

Casuarinaceae. Australian Hardwood tr. and shrubs making nice street trees in the South and doing well near salt water.

—*Cunninghamiana*.

Valuable species; to 40 ft; in Australia; th; valuable timber tr; 60 ft; (X?).

—*distyla*.

(rigida) Sh or tr to 10 ft; Australia.

—*equisetifolia*.

Horse-tail Tree. To 70 ft; (X).

—*galuca*.

Tr to 50 ft; Australia.

—*tennuissima*.

Beef-wood Tree. Odd looking tr with grayish pendulous branchlets; rapid grower.

—*nana*.

5-8 ft; Australia.

—*suberosa*.

25 foot tree.

CASU-13. 50¢

CASU-14. 40¢

- stricta.** **CASU-16. 50¢**
Ornamental tr, 25 ft; especially good for street and parks; stands some dry conditions; has weeping appearance; Australia.
—**torulosa.** **CASU-17. 35¢**
Tree to 3 ft; Australia. 1/2 **Oz. \$2.00.**

CATALPA. (cat-TAL-pah)
Bignoniaceae. Popular trs; showy in bloom; useful as ornamental trs; sow seed in spring seedlings damp off easily.

- bignonioides.** **CATL-2. 30¢**
To 60 ft tr; fls white, 2" ac in panicles.
—**oaya.** **CATL-10. 30¢**
(Kaempferi) 30 ft. tr; China; yellowish white fls marked orange and violet, in 10" panicle. **Oz. 75¢; lb. \$5.00.**
—**speciosa.** **CATL-11. 25¢**
Western C. 100 ft; (IV). c.s. **Oz. 50¢; lb. \$3.50.**

CATANANCHE. (kat-ah-NAN-kee)
Compositae. Cupid's-Darts. Herbaceous hardy annuals and perennials with long stalked blue or yellow heads of ray and disk flowers; they are not hard to grow; HP.

- caerulea.** **CATA-1. 25¢**
Everlasting. Blooms first year; blue ray-fls; June-Aug; 2 ft; HP; C-23.
—**alba.** **CATA-1W. 30¢**
Silvery white. 1/2 **Oz. 70¢.**

CAULOPHYLLUM. (kaw-loh-FILL-um)
Berberidaceae. Two erect rhizomatous perennial plants; border or wild garden.

- thaictoides.** **CAUL-1. 50¢**
Blue Cohosh. Yellow-green fls; fruit or namental; shade; very showy; 150 seeds per ounce. **PLANTS: 75¢ each; 3- \$1.65.**

CEANOTHUS. (see-ah-NOH-thus).
Rhamnaceae. Shrubs and small trees of the Pacific Coast and not hardy in the North. They have pretty small white or pink flowers in dense panicles. Best in a sunny sheltered place in well drained light soil; plants can be dug in the fall and wintered over in a frost-proof house.

- americanus.** **CEAN-1. 25¢**
N. J. Tea. White fls; 3 ft; HP. **Oz. \$2.00.**
—**austrorontanus.** **CEAN-4. 25¢**
Evergreen; blue fls; 8 ft; TP.
—**caesifolius.** **CEAN-8. 25¢**
Shrub to 6 ft; white fls; very pretty lvs;
—**cvaueus.** **CEAN-10. 25¢**
San Diego Lilac. Shrub; dark blue fls; May-June; showy; 10 ft.
—**canus.** **CEAN-20. 35¢**
White fls; white bark; 8 ft; Calif.
—**integerrimus.** **CEAN-21. 25¢**
Deer Brush. White fls; 12 ft; HHP.
—**leucodermis.** **CEAN-23. 25¢**
Spreading Lilac. White fls; 12 ft; Calif; (IX).

- prostratus.** **CEAN-35. 50¢**
Creeping ev sh; blue to white fls; gritty soils with clay or leaf mold; sun or light shade; RG; in N dig up plants and store in frost free cellar.
—**tomentosa olivaceum.** **CEAN-47. 30¢**
—**thysiflorus.** **CEAN-48. 25¢**
Blue Blossom. Evergreen to 8 ft; blue fls; Oregon; HP.
—**verrucosus.** **CEAN-50. 25¢**
Low shrub covered with clouds of small flowers; S. Calif; (IX).

CEDRELA. (se-DREE-lah)
Meliaceae. A timber tr producing a valuable colored wood; ornamental; thrives in a fertile loamy soil.

- Toona.** **CEDL-9. 40¢**
Tree to 70 ft; Himalays; (XI).

CEDRONELLA. (sed-ro-NEL-lah)
One perennial shrublet; native of Canary Islands; ornamental.

- cenaensis.** **CEDN-1. 40¢**
Canary Balm. White or lilac fls in whorls in loose terminal spikes.

CEDRUS. (SEED-rus)
Cedar Pinaceae. Germinate in the dark.

- atlantica.** **CEDR-1. 30¢**
Oz. 60¢; lb. \$4.00.
—**argentea.** **CEDR-1A. 30¢**
Oz. 50¢; lb. \$4.00.
—**deodora.** **CEDR-4. 35¢**
Himalays; soak seed 3 hours. **Oz. 50¢; lb. \$4.00.**
—**glauca.** **CEDR-4G. 35¢**
—**libanii.** **CEDR-5. 35¢**
Lebanon C. Asia Minor. **Oz. 50¢; lb.**

CEIBA. (say-EE-bah)
—**petandra.** **CEIB-2. 40¢**
Silk Cotton Tree. Showy fls; good shade tree; (X).

CELASTRUS. (sel-LAST-rus)
Celastraceae. Twining shrubs with showy capsular fruits; they are hardy and attractive; sow seeds in fall or stratify for spring planting.

- flagellaris.** **CELA-5. 30¢**
Hardy in (IV) zone; orange yellow fr; N. China. **Oz. 65¢.**
—**orbiculatus.** **CELA-6. 40¢**
Orange-yellow fruits; Japan. **Oz. 50¢.**
—**scandens.** **CELA-11. 40¢**
Waxwork or Bitter Sweet. Fls in terminal racemes, 4" long; orange-yellow fr; (III); 1-2 ft. **Oz. 50¢, d.b.; lb. \$4.00.**
PLANTS: 65¢ each; 3-\$1.75.

Get the Biennials started by August 15th.

CELOSIA

Amaranthaceae. Cocks-comb. Popular annuals, all easily grown from seed which are best started indoors early in the spring. They grow best in a rich soil with plenty of moisture; (sel-LOH-shee-ah); germs. 12 d.
CRISTATA: The Cockcomb. They make nice pot plants and are also grown for bedding; they are very showy annuals; C-9.

- Florist Strain.** **CLOS-2F. 50¢**
A brilliant mixture of all colors with both light and dark foliage; very uniform habit; 6-7 inches high. 1/4 **Oz. \$2.00.**

DWARF VARIETIES: About 4-8 inches tall they are especially nice in pots or beds.

- aurea.** **CLOS--2A. 25¢**
Deep golden combs.
—**Empress.** **CLOS-2E. 25¢**
Dark velvety crimson-maroon; 12"; **Oz. \$1.60.**
—**KARDINAL.** **CLOS-2K. 30¢**
—**President Thiers.** **CLOS-2T. 25¢**
Velvety carmine-red combs; green fol; 10 inches. 1/2 **Oz. 80¢.**
—**Rose Beauty.** **CLOS-2R. 25¢**
Soft rose combs; pretty in pots.
—**Dwarf White.** **CLOS-2W. 25¢**
The best dwarf white variety.
—**Dwarf Blend.** **CLOS-2DX. 25¢**
Oz. \$2.00. 1/4 lb. \$4.50.

TALL VARIETIES: Grows 2-3 ft and nice in beds or border as well as for cut-flowers.
Tall Varieties Mixed. CLOS-3X. 25¢
 Oz \$1.60; ¼ lb. \$3.75.



CELOSIA—TOREADOR

—**TOREADOR.** CLOS-3T. 30¢
 New. Large velvety combs up to 12" ac; lustrous red; excellent for cutting or bedding; introduced in 1955.

—**Crimson.** CLOS-3C. 20¢
 Bright crimson combs; 18 inches high.
 —**Royal Velvet.** CLOS-3A. 20¢
 Rich carmine-crimson; bronze foliage with reddish margins.

GILBERT HYBRID COCKSCOMB: These are especially good for cutting, beds and as dried flowers; they hold their colors very long; C-9.

—**Green Gold.** CLOS-5G. 25¢
 Ball-shaped heads, silvery green to a flush rose; 30".

—**Harlequin.** CLOS-5H. 25¢
 Pink, tipped gold, changing to salmon; fine for pots; 18".

—**Maple Gold.** CLOS-5M. 25¢
 Ball-shaped heads; pink tipped with gold; leaves green; 3 ft.

—**Rose Beauty.** CLOS-5R. 25¢
 Large bell-shaped combs; 10-15" across; rose-pink; 3-4 ft.

—**Blend of Above Varieties.** CLOS-5X. 25¢

PLUMOSA: These are the feather-type Celosias; tall feathery plumes in various colors; the plumes are very showy and are excellent for both cutting or bedding; C-9.

—**Golden Plume.** CLOS-6G. 25¢
 Bright golden spikes; 3 ft. ½ Oz. 80¢.

—**Little Guy.** CLOS-6LG. 30¢
 Showy cerise-red; 15 in; Oz. \$1.25.

—**Pampas Plume.** CLOS-6PP. 25¢
 An improved giant flowered mixture; large feathery spikes carried on good stems and range in color from deep crimson and scarlet, thru copper, gold and bronze; a fast growing strain, ideal for cutting. ½ Oz. \$2.00.

—**Pride of Castle Gould.** CLOS-6P. 25¢
 Large fluffy scarlet-crimson plumes; 3 ft.

—**Scarlet Plume.** CLOS-6SP. 30¢
 Showy brilliant scarlet; 3 ft. ½ Oz. 80¢

—**Tango.** CLOS-6T. 25¢
 A showy terra-cotta; fine contrast for beds; 3 ft.

—**Fire Plume.** CLOS-6F. 25¢
 Red foliage; fire-scarlet plumes; 3 ft.

LILLIPUT: The following varieties are low dwarf types of the above.

—**Firebrand.** CLOS-6LP. 25¢
 Bedding or for pots; brilliant scarlet plumes; 1 ft. ½ Oz. 75¢.

—**Golden Plume.** CLOS-6LT. 25¢
 Deep yellow on dwarf plants. ½ Oz. 50¢.

—**Blend of Above.** CLOS-6LR. 25¢
 Brilliant red; 15" plants. ½ Oz. 50¢.

—**Thompson magnifica, Mxd.** CLOS-6LX. 25¢
 Large bright flashy plumes; a fine strain.

—**Triumph of the Exhibition.** CLOS-6E. 25¢
 3 ft; fine color range.

—**Another showy strain;** 2½ ft.

—**Fire Feather.** CLOS-6F. 25¢
 Dwarf Florist's Strain. Brilliant scarlet in uniform plants, 12 inches high.

—**Mixed.** CLOS-6X. 25¢
 A blend of the above tall varieties.

CHITDSII: Chinese Woolflower. HA; C-9.

—**Childsii.** CLOS-7X. 25¢

—**Mixed Celosia** CLOS-X. 20¢
 A mixture of all kinds of Celosias.

CELMISIA. (kal-MIS-ah)

Compositae. Perennials native of N. Z. and Aust. with large solitary heads of pure white ray-flowers. (V).

—**cericea v. Monroi.** CELM-1 50¢
 Striking plant with silvery fol; large white fls; 18"; HHP.

—**discolor.** CELM-2. 50¢

—**incana.** CELM-3. 30¢

—**petio ala.** CELM-4. 50¢

—**compacta v. Monroi.** CELM-8. 50¢

—**Lindsayi.** CELM-7. 50¢

—**specabilis.** CELM-9. 50¢

—**Traversii.** CLEM-11. 50¢

—**Blend of Above.** CELM-X. 30¢

CELTIS. (CEL-tis)

Ulmaceae. Hackberry. Grown for ornament and shade; hardy in the N; lvs are Elm-like; most species are deciduous trees; sow seed as soon as ripe, in frames.

—**australis.** CELT-1. 30¢
 Dark purple fr; lvs 6" long; 75 ft; (IX).

—**Bungeana.** CELT-3. 30¢
 Frt; 50 ft; Manchuria; fr. purplish black.

—**laevigata.** CELT-9. 50¢
 Sugar-berry. Orange-red fruits; Ind-Texas; to 100 ft.

—**mississippiensis:** see *laevigata*.

—**occidentalis.** CELT-11. 50¢
 Orange-red fruits; Canada-Ala; to 120 ft.

—**sinensis.** CELT-14. 50¢
 O. 50¢; c. s; lb. \$3.00.

—**Tournefortii.** CELT-18. 30¢
 (orientalis) 20 ft; bluish lvs and reddish yellow fr. Oz. 85¢; lb. \$3.00.

CENTAUREA

Compositae. Herbaceous annuals and perennials, all of which have value as garden plants, blooming from June till frost. Annuals are hardy; space 12 in. apart; (C-2). (sen-tau-REE-uh).

BACHELOR BUTTONS: Cornflower; Blue Bottle. HA; 2½ ft; fine cut flowers; C-2.

—**Black Boy.** CENT-1K. 20¢
 Blackish maroon double flowers.

—**Blue Boy.** CENT-1B. 20¢
 Pretty sky-blue color; double.

—**Emperor William.** CENT-1E. 20¢
 A lovely clear light blue; one of the best. Single flowers.

—EA LY STRAIN MIXED. CENT-IDX. 25¢

An extra early NEW STRAIN that will flower 20-25 days earlier than any of the regular strains. Several new colors have been added in the development, including two new shades of pink, a light blue, a deeper red and a beautiful new mauve color; fls 1½-2" ac; fully double; plant is slightly more dwarf and compact. ¼ Oz. \$1.50.

**CENTAUREA CYNUS**

- Maroon. **CENT-1M. 20¢**
- Large double maroon flowers.
- Mauve. **CENT-1V. 20¢**
- Pinkie. **CENT-1P. 20¢**
- Deep pink; excellent pink strain.
- Red Boy. **CENT-1R. 20¢**
- Rose. **CENT-1Z. 20¢**
- Single flowers.
- Snowman. **CENT-1W. 20¢**
- The best double white variety.
- Blend of Above Varieties. **CENT-1X. 15¢**
- Any of above: Oz. 75¢.

C. CYANUS NANA: Same as above but in low bushy plants excellent for pots or bedding.

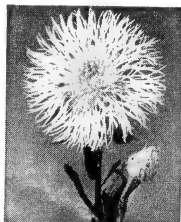
- Azure Fairy. **CENT-2Z. 25¢**
- Light blue; double; 12 inches.
- Jubilee Gem. **CENT-2J. 25¢**
- Dark blue on extra nice 12" plants.
- Polar Gem. **CENT-2P. 25¢**
- A pure white variety of above.
- Lady Lilac. **CENT-2L. 25¢**
- Lilac or lavender color.
- Purple Prince. **CENT-2R. 25¢**
- Blend of Above. **CENT-2X. 25¢**

C. IMPERIALIS: Giant Sweet Sultan. A hybrid between C. moschata and the white variety. 4 ft; flowers soft thistle-like heads; nice border plants or cutting; HA; C-1.

- graziora. **CENT-28G. 35¢**
- Lilac flowers.
- Rose. **CENT-28Z. 25¢**
- splendens. **CENT-28S. 25¢**
- White. **CENT-28W. 25¢**
- Blend of Above Varieties. **CENT-28X. 15¢**
- Any above: ½ Oz. 60¢.

C. MOSCHATA: Sweet Sultan. Fragrant white, yellow or purple solitary flowers, 2" across, beautifully soft and fluffy; fine for both border or cutting; HA; spac 12"; C-1.

- The Bride. **CENT-45D. 25¢**
- Pure white; 2 ft.
- suaveolens. **CENT-45S. 25¢**
- (odorata) The yellow Sweet Sultan; 2½ ft ½ Oz. 75¢.
- Blue. **CENT-45B. 25¢**
- Pink. **CENT-45P. 25¢**
- purpurea. **CENT-45I. 25¢**
- rosea. **CENT-45T. 25¢**
- White. **CENT-45V. 25¢**
- Blend of Above. **CENT-45X. 15¢**
- Any of above: ½ Oz. 60¢.

**CENTAU EA AMERICANA****OTHER CENTAUREA SPECIES:**

- americana. Lilac. **CENT-7L. 25¢**
- Basket-Flower. Thistle-like fls; 4-5" ac; HA; 2-4 ft; July-Sept; space 18"; C-8.
- White. **CENT-7W. 25¢**
- candidissima: see C. Cineraria. For Dusty Miller see *Senecio leucostachys*.
- Cineraria. **CENT-14. 25¢**
- Dusty Miller. Golden yellow or purple fls; 1 ft; HP; July-Sept; treat as HHA; slow grower; start early; silvery white fol; space 9"; C-8. ¼ Oz. \$1.00.
- dealbata, Rose Delight. **CENT-20Z. 25¢**
- Mauve-pink variety; very nice; 2½ ft; HP; C-23. ½ Oz. 50¢.
- depressa. **CENT-21. 25¢**
- Prostrate; blue heads, 1½" ac; lvs silvery; HP.
- Jacea. **CENT-32. 35¢**
- Pink-maroon Cornflower; 1½" ac; 2 ft; HP.
- Fritschii. **CENT-24. 25¢**
- Rose heads, ½" ac; 6 ft; HP.
- gymnocarpa. **CENT-30. 25¢**
- Dusty Miller. Lvs densely white, woolly; 24"; HHA; Start in March; June-Sept; fern-leaf; space 12"; striking bedder.
- macrocephala. **CENT-38. 25¢**
- Enormous double golden fls; 3-4 ft; July-August; HP. ½ Oz. 60¢.
- montana. **CENT-44. 25¢**
- Mountain Bluet. Brilliant blue fls, 2" ac; June-Sept; 2½ ft; C-23; HP. ½ Oz. 70¢.
- ruthenica. **CENT-62. 25¢**
- Pale yellow heads, 2" ac; border; 3 ft; HP C-23 or 24; FG.
- suaveolens: see moschata.
- Hardy Centaurea Blend. **CENT-X. 20¢**
- Blend of the above species only.

CENTAURIUM. (sen-TAW-ree-um)
Gentianaceae. (Erythraea). Grown in the border or RG; not hardy in the N and require protection from sun and frost.

- scilloides. **CENA-6. 50¢**
- umbellatum. **CENA-7. 35¢**
- Common Centaury. HA or HB herb.

CENTRANTHUS.

(sen-TRAN-thus)

Valerianaceae. Annuals and perennials doing well from seed in the open border; have dense terminal clusters; June-July; space 12".

—**macrophylla.****CEMS-2. 35¢**

Showy rose and pink fls; 2 ft; HA; June-July; space 12".

—**rubra.****CEMS-4. 25¢**

Red Valeriana, Jupiter's Beard. Fragrant crimson fls; 3 ft; HP; C-23; LK. Oz. \$4.00.

CEPHALANTHUS.

(sef-al-LAN-thus)

Rubiaceae. Button-Bush. Small trees and shrubs with showy flower heads; easily grown in moist soils.

—**occidentalis.****CEPA-1. 50¢**

Creamy fls in long spiked heads; July-Sept.

CEPHALARIA.

(se-fah-LAY-ri-ah)

Dipsacaceae. Annuals and perennials with Scabiosa-like flowers; useful as border plants and for cutting. Colors creamy white and various yellow shades; June-Aug; ordinary soil.

—**latifolia.****CEPH-12. 25¢**

Tall robust habit; sulphur-yellow fls; 5 ft; HP.

CEPHALOCEREUS.

(sef-ah-loh-SEE-re-us)

—**leucocephalus.****CEPC-35. 40¢**

To 17 ft; white fls, 1½" long; Mexico.

CEPHALOPHYLLUM.—**decipiens.****CEPL-9. 50¢**

Tufted, clump-shaped with mostly long dotted lvs; fls very large and beautiful; good grower; requires full sun light; grows during winter.

CEPHALOTAXUS.

(sef-ah-loh-TAK-us)

Plum-Yew. Cephalotaxaceae. Ev. trs and shr. native of Asia; hardy in (IV) zone; similar to Taxus.

—**drupacea:** see **Harringtonii.**

Harringtonii v **drupacea.** **CEPX-6D. 30¢**
Tree to 30 ft; 45 seeds to oz; Japan. Oz. 75¢; lb. \$2.50.

CERASTIUM.

(se-RAS-ti-um)

Caryophyllaceae. Mouse-Ear. Excellent RG or edging plants; easily grown in ordinary soil. Usually mat-forming; lvs silvery and showy star-like flowers in May and June.

—**lanatum.****CERS-IL. 30¢**

Fine cushion RG pl; silvery lvs; white flowers; HP.

—**Biebersteinii.****CERS-4. 30¢**

Creeping; 6"; white; May-June; HP; C-23. ½ Oz. 40¢.

—**cardidissimum.****CERS-9. 50¢**—**dianum.****CEIS-12. 30¢**

Day-Jessamine; shrub to 15 ft; (VII).

—**glomeratum.****CERS-14. 50¢**—**lanatum.****CEIS-18. 30¢**—**tomentosum.****CERS-26. 25¢**

Snow-in-Summer. Creeper; silvery fol; white fls; RG; HP; this may be weedy in the South; C-23. ½ Oz. 70¢.

—**uniflorum.****CERS-28. 30¢**

White fls ½" ac; in cymes; 3 inches; HP.

CERATOSTIGMA.

(ser-ah-toh-STIG-ma).

Plumbaginaceae. Nice border plants and shrubs blooming late into the fall; half hardy perennials with shining leaves; flowers saucer-shaped, blue and rose.

—**Griffithii.****CERA-1. 30¢**

Low shrubs; blue fls; India; hot dry loc

ations; 3-4 ft; HHP.

—**Willmottianum.****CERA-3. 25¢**

Bright blue fls with rosy tube; July-Nov; 5 ft; HHSh.

CERATONIA.

(see-ah-TOH-ri-ah)

Leguminosae. Ev. tr to 50 ft; fruits edible.

—**Siliqua.****CE-Q-1. 25¢**

Carob. St. John's-Bread. Stands few degrees frost; grow as orange trees; (X). Oz. 90¢; lb. \$3.00.

CERATOPETALUM.

Cunoniaceae. Resinous trs native of Aust; grown in GH or in far South.

—**gummiferum.****CERP-5. 40¢**

N.S.W. Christmas Bush. Tr to 40 ft. Oz. \$1.00.

CERCIDIPHYLLUM.

(ser-sid-i-FIL-um)

Katsurg-tree. One deciduous tr to 100 ft; Japan.

—**japonicum.****CERM-1. 50¢**

Flowers before the lvs. Oz. 75¢; lb. \$8.00.

CERCIS.

(SER-siss)

Leguminosae. Judus-Tree. Small trees and shrubs, noted for their early spring flowers which appear before the leaves; thrive in a fertile sandy loam; sow seeds in spring over heat; for better germination try filing a notch in the seed coat.

—**canadensis.****CERC-1. 40¢**

Pretty tree to 40 ft; rosy pink fls before leaves in spring; (IV); Lb. \$10.00.

—**chinensis.****CERC-2. 50¢**

Tree to 50 ft; purplish pink fls; China. Lb. \$3.75.

—**occidentalis.****CERC-4. 40¢**

Shrub to 15 ft; Calif. Oz. 75¢; lb. \$4.00.

—**reniformis.****CERC-7. 40¢**

Texas Red Bud. Sh or tr, 40 ft; reddish fls, 1½" long, in clusters; Texas.

—**Siliquastrum.****CERC-9. 50¢**

Sh or tr to 40 ft; purplish rose fls in clusters. Oz. 60¢; lb. \$1.50.

—**alba.****CERC-9A. 50¢**

A white flowered variety. Oz. 60¢; lb. \$1.50.

CERCOCARPUS.

(ser-koh-KARP-us)

Mountain-Mahogany. Rosaceae. Trs of W. N. Am; can be planted as shrubby; does well in dry soils.

—**ledifolius.****CERP-5. 25¢**

40 ft; Wash. c.s. Oz. \$3.00.

CEREUS.

(SEER-ee-us) Good beginner species.

—**Pitahaya:** see **C. variabilis.**—**peruvianus monstrosus.** **CERE-29M. 35¢**

Columnar species, much like **C. azureus.**

—**variabilis.****CERE-44. 50¢**

Shrub-like; 14 ft; white fls, 8" long; Urug.

CERINTHE.

(se-RIN-thee)

Honeywort. Boraginaceae. Easily cultivated Herb belong to Borage Family.

—**major.****CE-I-2. 40¢**

Good bee plant; germ-7 days; 1 ft; purplish fls; showy; Medit.

CEROPTERIS: see **Pityrogramma.****CESTRUM.**

(SES-trum)

Solanaceae. Warm regions; trs and shr; popular GH plants; flowering Jan-Apr.

—**auranticum.****CEST-1. 40¢**

Semi-climbing sh; orange-yellow fls in terminal panicles; Guatemala.

CHAENACTIS. (kee-NAK-tis).

Compositae. Shrubs and trees from tropical regions and grown in the GH in the N. They make attractive winter plants with their bright flowers.

—*Douglasii*.

Bride's Bouquet. White fls! 1-2 ft; June-July; HB.

CHAE-1. 25¢

CHAENOMELES.

(kee-NOM-el-ezz)

Rosaceae. Flowering Quince. Very pretty early flowering shrubs most of which are hardy in zone IV; stratify seeds and sow in the spring.

—*Burkeana*.

Small sh; 5 ft; very good; small white fls; S. Af; (IX).

CHNO-2. 30¢

—*Japonica*.

Dwarf Jap. Q. 3 ft; orange-scarlet fls.

CHNO-1. 30¢

—*Lagenaria*.

Jap. Q. 10 ft; scarlet-red fls; China.

CHNO-2X. 30¢

CHAENOSTOMA.

(kee-NOSS-tom-uh)

Scrophulariaceae. S. Af; tubular white, yellow or reddish fls followed by showy fruits; makes nice pot plants in GH; IX; germinates in 10 days.

—*Burkeana*.

CHAT-1. 35¢

CHAENORRHINUM.

Scrophulariaceae. Genus of annuals and perennials, formerly in *Lineria*; native of the Medit. regions.

—*origanifolium*.

Pale purple to white fls with yellow palate; similar to Snapdragons; 10"; HP.

CHAR-3. 30¢

CHAMAECYPARIS. (kam-ee-SIP-ar-iss)

Cupressaceae. False-Cypress. Large evergreen trees grown for ornament, nearly all of which are hardy in the N; grow same as *Confers*; best sown in spring.

—*Lawsoniana*.

This and all the following varieties: **Oz. 50¢; lb. \$3.75.**

—*allumii*.

CHAM-2A. 30¢

—*argentea*.

CHAM-2B. 30¢

—*aurea*.

CHAM-2U. 30¢

—*variegata*.

CHAM-2UV. 30¢

—*erecta*.

CHAM-2E. 30¢

—*quercus pendula*.

CHAM-2GP. 30¢

—*pyramidalis*.

CHAM-2P. 30¢

—*Tiomphe de Boskoop*.

CHAM-2T. 30¢

—*nootkaensis*.

CHAM-4. 30¢

Oz. 50¢; lb. \$5.00.

—*obtus*.

CHAM-5. 30¢

This and all varieties, except as noted: **Oz. 50¢; lb. \$5.50.**

—*aurea*.

CHAM-5A. 30¢

Golden yellow leaves when young. **Oz. 80¢**

CHAM-5L. 30¢

—*lycopodioides*.

CHAM-5C. 30¢

—*crispa*.

CHAM-5K. 30¢

—*Ketteleri*.

CHAM-6. 30¢

—*pisifera*.

CHAM-6F. 30¢

Sawara C. Japan; hardy up to (IV); several varieties. **Oz. 60¢; lb. \$5.00.**

CHAM-6P. 30¢

—*filifera*.

CHAM-6S. 30¢

—*plumosa*.

Oz. 50¢; lb. \$5.00.

—*squarrosa*.

Oz. 75¢; lb. \$7.50.

CHAMAEDOREA elegans; see Collinia el.

CHAMAELAUCIUM. (kam-ee-LAU-see-um)

Myrtaceae. Australian Heath-like shrubs with fls in terminal racemes; hardy in (X) from Australia; sow in sandy soil in spring or summer in open, with glass a few inches above seed bed; dry heating for 2 hours at 175 deg. F. has also proved effective.

—*uncinatum*.

Lovely fol. and beautiful blooms combining to make this outstanding; want stand wet feet or over manuring; cut back hard after flowering; pink fls; excellent for cut-flowers; (IX).

—*ed.*

—*Pink.*

CHAW-3. 25¢

CHAW-3R. 30¢

CHAW-3P. 30¢

CHAMAEROPS.

(kam-MEE-rops)

Palmaceae. One low bushy fan-palm of Medit. regions; GH; much planted for a small hardy palm.

—*humilis*.

3-5 ft high; (VI). **Oz. \$1.00; lb. \$2.50.**

CHAO-2. 50¢

CHARIES.

(kay-ry-EE-iss)

Compositae. One S. Af. plant, grown in the border or GH.

—*heterophylla*.

(C. Neesii, Kaulfussia amelloides). Rays blue, disks yellow and blue; very showy and easy; 1 ft; HHA.

CHAR-1. 40¢

CHASMANTHE.

Iridaceae. S. Af. natives similar to Antholyza and Gladiolus; grow same as latter.

—*aethiopica*.

(Antholyza aethiopica). Tall Irid; fls stems black-purple; fls orange-red, tubular; cultivate like gladiolus; 2½ ft.

—*floribunda*.

This has broader leaves.

CHAS-2. 50¢

CHAS-5. 35¢

CHEILANTHES.

Lady-Fern.

—*farinosa* v. *chrysophylla*.

Golden Fern.

CHEF-5. 50¢

CHELIDONIUM.

(kel-id-DOH-nee-um)

Papaveraceae. Celandine. Grown in wild gardens; used as a garden herb.

—*majus*.

Yellow fls, ½ inch across; 4 ft. HP.

—*Double Form.*

CHEL-1. 30¢

CHEL-1D. 40¢

CHEIRANTHUS

Cruciferae. Perennials many of which rank amongst the showiest flowers. The Wallflowers belong to this genus, under C. Cheiri. There are some interesting possibilities in this genus as it hybridizes with *Erysimum*. The Siberian Wallflower comes under the latter genus now. Treat as HA in the North. (kye-RANTH-us)

Cheila: Wallflower. Sow seed as early in the spring as possible that a strong, robust plant will be grown as success in growing them depends much on a strong plant; weakly grown plants are sure to die. They are cool weather plants; treat as biennials; C-15.

—*Cloth of Gold.*

Rich yellow; lge fls; 18"; popular. **CHEIR-1C. 20¢**

—*Covent Garden.*

Blood-red flowers; popular. **CHEIR-1CG. 20¢**

—*Fireball.*

New Swiss variety; fiery red. **CHEIR-1B. 20¢**

—*Fire King.*

Brilliant Orange. **CHEIR-1F. 20¢**

—*Flammenspiel.*

A dandy scarlet variety. **CHRY-1F. 25¢**

—*Golden Goliath.*

Dandy forcing variety; dark maroon. **CHEIR-1G. 20¢**

—*Goliath.*

Very beautiful single in maroon. **CHEIR-1L. 20¢**

—*Golden Mascot.*

Rich golden flowers. **CHEIR-1GM. 20¢**

—*Golden Monarch.*

A rich yellow counterpart of Vulcan; 12". **CHEIR-1D. 20¢**

- Ivory White.** Nearest to a pure white; 18".
Orange Bedder. Rich orange shading to apricot-yellow; 1'.
Ruby Gem. Very large and fine ruby-violet; 18 in.
Scarlet Emperor. The best scarlet variety.
Vulcan Improved. Rich velvety crimson; 1 ft; choice strain.
Blend of Above.
Dwarf Double Mixed.
Earliest Paris Mixed. Treat these as annuals; very early type.
Golden.
Earliest Paris yellow.
Early Wonder.
Golden Standard. An Early Wonder type in yellow.
Early Wonder Mixed.
Tall Double Mixed. Oz. 50¢; lb. \$2.75.
Berlin Fireball.
Early Forcing Mixed. Single annuals.
All Above: Oz. 80¢.

EARLY PARIS:

- Very early type; treat as annuals.
Black-brown. CHER-2PB. 30¢
Flood-red. CHER-2PR. 30¢
Golden Yellow. CHER-2PY. 30¢
Mixed. CHER-PX. 25¢
Above: Oz. \$1.00; lb. \$8.50.

ANNUAL WALLFLOWERS: This strain will flower the first season if started indoors.
Golden. CHER-2G. 25¢

CHEIRANTHUS SPECIES:

- a pinus.** CHER-5. 40¢
Lemon-yellow fls; Norway; 1 ft; HP.
allioni: see Erysimum asperum.
keisers. CHER-7. 30¢
Bushy perennial; fls 1" ac; upright racemes; orange; HHP.
linifolius: see Erysimum linifolium.

CHEIRIDOPSIS.

Nearly stemless, highly succulent plants; most of them grow during winter.

- brevis.** CHED-6. 50¢
candidissima. CHED-8. 50¢
White or pale pink fls, 2" ac.
Comptonii. CHED-16. 50¢
Duplessiae. CHED-19. 50¢
Euprea. CHED-20. 50¢
Peculiaris. CHED-35. 50¢
Yellow flowers, 2½" across.
Pillansii. CHED-40. 50¢
Cream colored, white near base, 3" ac.

CHELIDONIUM. (kel-id-DOH-nee-um)

Celandine. Papaveraceae. A weedy biennial or perennial grown in the wild garden.
major. CHEL-1. 25¢
4 ft; yellow fls 2/3" ac in small umbels.

CHENOPODIUM. (kee-noh-POH-dee-um)

Chenopodiaceae. Few species grown as garden herbs or ornamental plants; easy.

- Botrys.** CHEN-6. 30¢
Feather Geranium, Jerusalem-Oak. HA;
2 ft; attractive; can be dried.
Bonus-Henricus. CHEN-10. 30¢
A most nourishing perennial vegetable that grows in good soil producing a profusion of lvs, which are cooked like Spinach. It self sows; seed is slow to germinate; (Good-King-Henry). Oz. 60¢.
amaranticolor. CHEN-1. 25¢
Amaranthus-red spotted lvs. ¼ Oz. 50¢.

CHERVIL: see *Anthriscus cerefolium*.

CHICORY: see *Cichorium Intybas*.

CHILOPSIS.

Bignoniaceae. 20 ft. sh or sm tr; dry regions; Texas.
linearis. CHIL-1. 40¢
Desert or Flowering Willow. Trumpet-shaped fls; lilac.

CHIMONANTHUS. (kye-moh-NANTH-us)
 Calycanthaceae. Two shs from China; sow in the spring; (V).
praecox. CHIM-4. 35¢
(Calycanthus and Meratia) 10 ft fragrant fls, 1" ac, striped brown. Oz. 75¢; lb. \$6.00.
grandiflorus. CHIM-4G. 40¢
Same but larger in both leaves and flowers. Oz. 70¢; lb \$7.00.

CHIONANTHUS. (kye-oh-NANTH-us)

Fringe-Tree. Oleaceae. Two trs or shs; hardy in N with protection; sow in fall or sp; stratify for spring planting.

- retusa.** CHIN-2. 40¢
Tr to 20 ft; fls 4"-long panicles; June-July; China. Oz. 85¢.
virginica. CHIN-3. 30¢
30 ft; May-June; (V); best from seed.

CHIONODOXA. (kye-oh-noh-DOX-uh)

Glory-of-the-Snow. Lilaceae. Early flowering bulbous plants; sun; bulbs are listed in Fall Bulb List.

- Luciliae.** CHID-5. 35¢
Bright blue fls with white centers; 1" ac; 8".
Luciliac v. roseum. CHID-5R. 40¢
Pink fls; 8".

CHIRITA.

Gesneriaceae. Tropical succulent-like with showy flowers; treat same as Gesnerias.

- lavandulacea.** CHIR-3. 50¢
Attractive greenhouse plant; (X).
species. CHIR-X. 30¢

CHIRONIA.

Gentianaceae. African plants with pink and purple flowers in cymes, hardy up into the VI Zone.

- transvalensis.** CHIO-3. 40¢
Bright pink fls on slender stems; marshy ground; 2½ ft; TA.

CHIVES: see *ALLIUM* 87.

CHORISIA.

Bombacaceae. Native Calif. and Chile; for dry places; (IX).

- speciosa.** CHOR-8. 40¢
Floss-Silk Tree. Yellowish fls, striped with brown at base, 3" ac; Brazil.

CHORIZEMA.

Leguminosae. Grown out doors in far S or in GH in N; requires plenty of sun.

- cordatum.** CHOZ-3. 40¢
10 ft. sh; abundant orange-red or scarlet fls in open racemes; Australia.

Many of the less common plants but never the less, very useful in the garden for ornament, the seed has to be secured from people living in the section of the world where naturally grows....It is these flower lovers that we like to hear from so seed can be secured....Drop me a few lines. The service this catalog offers is often not fully appreciated; there is no other like it any where in the world.

CHRYSANthemum

Compositae. A large genus of annuals and perennials of which there is a very large number of pretty flowers. They can be divided into 5 or 6 classes as listed below.

EDIBLE LEAVED CHRYSANthemum:

SHUNGIKU.

CHRY-SS*. 25¢

Small leaved; widely used in Japan for greens; highly aromatic flavor; its delicious....Oz. 50¢; lb. \$3.00.

—Large Leaved.

CHRY-SL. 25¢

Large leaf form; broad strap-leaf type; slightly indented. Oz. 50¢; lb. 3.00.



MIXED ANNUAL CHRYSANthemums

C. CARINATUM: Painted Daisy. Very popular hardy annuals; plant 2 ft tall; well branched, flowers 3 inches across and all with a dark eye, surrounded by a narrow yellow ring then a slightly larger scarlet ring followed by a dominant color for the variety; space 12 inches apart; June-Sept; best in sunny locations and excellent for mass effect or for cutting; C-7.

—atrococcineum.

CHRY-1A. 20¢

The Sultan. Bright crimson fls.

—Burridgeanum.

CHRY-1B. 20¢

Pure white petals zoned brownish red.

—Hybrid, Double Fringed.

CHRY-1H. 20¢

New English strain of double flowers.

—Cockade.

CHRY-1K. 20¢

White and crimson with yellow ring.

—Corona.

CHRY-1R. 30¢

Full double flowers.

—Dunnet's Double Hybrids.

CHRY-1D. 20¢

Double flowered type in various colors.

—Scalet.

CHRY-1DS. 20¢

—White.

CHRY-1DW. 20¢

—Ecipse.

CHRY-1E. 20¢

Shading light yellow to apricot, garnet band; yellow zone.

—leutium.

CHRY-1L. 20¢

—Northern Star.

CHRY-1N. 20¢

White with dark eye; popular.

—purpleum.

CHRY-1P. 20¢

—W. E. Gladstone.

CHRY-1G. 20¢

Large purple red flowers.

—White Queen.

CHRY-1Q. 20¢

Pure white with pale yellow zone; 18"

—Single Mixed.

CHRY-1S. 20¢

—Blend of Varieties.

CHRY-1X. 15¢

Oz. 87¢; 4 Oz. \$2.59.

C. CORONARIUM: Tallest of the hardy annuals and if planted in very rich soil, may need staking. Sow seed as early as possible, usually where plants are to grow, thin to 12 inches apart; plants 2-3 ft; July-

Oct; C-7.

—Golden Glory.

A new English single; deep yellow, central disk same; 3 ft.

—Golden Gem.

Dwarf double; try in pots; 1 ft; pretty.

—Golden Crown.

Silvery green fol; butter-yellow fls; 2½ ft.

½ Oz. 40¢.

—Yellowstone.

Double flowers; golden yellow.

—Double Yellow

CHRY-2Y. 25¢

—White.

CHRY-2W. 25¢

—Sulphur-Yellow.

CHRY-2S. 20¢

—Above Varieties Mixed.

CHRY-2X. 20¢

Any of above varieties, except as noted.

Oz. 75¢; ½ lb. \$2.00.

C. SEGATUM: Plant habit similar to C. carinatum; 2 ft tall; flowers are 3" across with dark or light eye surrounded by an inconspicuous pale yellow disk, then the dominant color for the variety; all HA; best to sow seeds direct to garden and as early as possible in the spring; thin to 12 inches C-7.

—Eastern Star.

CHRY-3S. 20¢

Primrose-yellow with a chestnut center;

1 ft. ½ Oz. 40¢.

—Eldorado.

CHRY-3E. 20¢

Deep yellow with black center; pretty.

—Golden Glow.

CHRY-3L. 20¢

A new double golden yellow. Oz. \$1.50.

—Gloria.

CHRY-3G. 20¢

Double yellow flowers.

—Helios.

CHRY-3H. 20¢

Evening Star. Deep golden yellow.

—Morning Star.

CHRY-3M. 20¢

Large yellow with black center; 1½ ft.

—Yellowstone.

CHRY-3Y. 20¢

A beautiful new double yellow; Oz. \$1.50.

—Zebra.

CHRY-3Z. 20¢

Flowers striped and blotched yellow and brown. Oz. 80¢.

—Blend of Above Varieties.

CHRY-3X. 20¢

Any above except as noted: Oz 50¢.

C. INDICUM: Perennials; 2-3 ft. tall with

soft foliage and much branched; they are

very showy in masses, blooming in five

months from seed. Flowers are in heads,

very numerous and ½-1 inch across; plant

either early or in mid-summer for the fol-

lowing summer; C-22.

—Double Special Blend.

CHRY-4DX. 25¢

¼ Oz. \$1.25.

—Saier's Early Strain.

CHRY-4SX. 25¢

A very choice single strain in bright

colors. ¼ Oz. \$1.00.

C. COCCINEUM: Pyrethrum. Fine cut-

flowers, especially liked by the florists;

flowers are daisy-like. If kept cut will

flower into the autumn; flowers 2nd year

from seed; space 12 inches HP.

—aureum, God Feather.

CHRY-5AF. 25¢

—Golden Moss.

CHRY-5AM. 25¢

Very dwarf

—Dark Carmine.

CHRY-5BC. 25¢

—Golden Gem.

CHRY-5BG. 25¢

—Giant White.

CHRY-5V. 25¢

WINSTON'S GIANTS.

CHRY-5B. 30¢

train for cut-flowers.

Oz. \$3.00; lb. \$26.00.

—Hybridum atrosanguinea.

CHRY-5HA. 30¢

—Rose.

CHRY-5Z. 25¢

—Pink.

CHRY-5P. 25¢

All the above are Pyrethrums; C-8.

- James Kelway. CHRY-5K. 25¢
- Langport Scarlet. CHRY-5L. 25¢
- roseum. CH Y-5.1. 25¢
- Single and doubles; extra fine strain.
- Market Strain. CHRY-5M. 25¢
- Double strain for commercial growing.
- selaginoides. CHRY-37S. 25¢
- Fern-like golden yellow leaves.
- Prize Doubles. CHRY-5DX. 25¢
- Single Blend. CHRY-5SX. 25¢

C. MAXIMUM: Shasta Daisy. Has larger flowers than *C. Leucanthemum*. In the newer varieties, the flowers are as large as 4 inches across, some double and fringed. They make the best of cut-flowers and where choice flowers are wanted, the flowering stems should be thinned. Rich soil and full sun; for GH sow Jan. 1; HP; C-23.

SAIET'S EXTRA DOUBLE. CHRY-5S. 40¢

An unsurpassed strain producing about 80% large flowered fully double types; very special. 1/2 Oz. \$3.00.

- Alaska. CHRY-6A. 20¢
- Antwerp Star. CH Y-6AS. 25¢
- Chigwell Giant. CHRY-6C. 25¢
- Giant pure white; fine form.
- Conqueror. CHRY-6Q. 20¢
- Stems 2 1/2 ft long; large pure white.
- Diener's Double White. CHRY-6DW. 25¢
- 1/2 Oz. \$1.00.
- Exhibition. CHRY-6E. 25¢
- Fringed Beauty. CHRY-6F. 25¢
- Fringed and curled petals.
- King Edward. CHRY-6K. 25¢
- May Queen. CHRP-6M. 25¢
- Medium sized, good for massing in the garden or border.
- Mont Blanc. CHRY-6MB. 20¢
- Extremely large white flowers.
- Perfection. CHRY-6P. 30¢
- Polar Sea. CHRY-6P. 20¢
- Rhine View. CH Y-6RV. 30¢
- The Sneaker. CH Y-6K. 25¢
- White Dame. CHRY-6W. 20¢
- Shasta Blend. CHRY-6X. 20¢
- Any above, except as noted: Oz. 80¢.

SHUNKIKU, Aromatic Greens.

Edible Leaved Chrysanthemum. A delicious aromatic green, widely used in salads in Japan and offered for the first time this year.

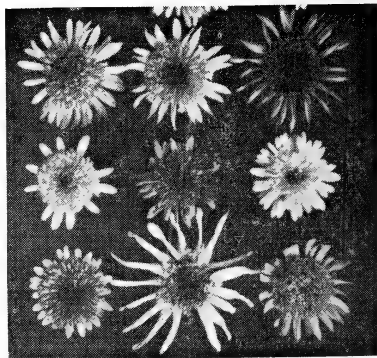
- Small Leaf Strain. CHRY-SS. 25¢
- Long Leaf Strain. CHRY-SL. 25¢

C. INODORUM: see *Matricaria inodora*.

OTHER CHRYSANTHEMUM SPECIES:

The perennial Chrysanthemums are short day bloomers; they seem to be more affected by length of night, too short a night prevents plants from blooming. Lights will affect the flowering if used at mid-night for an hour. The hardy species respond to freezing and best results obtained if sown in winter or very early spring.

- arcticum. CH Y-4. 4¢
- Aster-like fls; white to lilac; Arctic regions: 6 inches; HP.
- Paeonifolia. CHRY-6. 30¢
- Tanacetum balsamita.
- cinerariaefolium. CHRY-14. 25¢
- Dalmatian Chrysanthemum; 2 ft; HP
- corabsum. CHRY-19. 25¢
- (Pyrethrum) White fls; border; 2-4 ft; HP



NEW JAPANESE C. LEUCANTHEMUM

- densum. CHRY-20. 50¢
- Korean Hybrids. CHRY-22K. 25¢
- Saved from best varieties; C-9. 1/4 Oz. \$2.50.
- Anemone Flowered CHRY-22AF. 50¢
- A new Japanese strain; very choice. it comes in many different types.
- Arctic Hybrids. CHRY-22A. 25¢
- Arctic varieties. Single; very hardy; HP.
- japonicum. CH Y-27. 35¢
- Double. Anemone-flowered. Mixed.
- Cascade. CHRY-27C. 50¢
- A lovely variety of hanging Japanese C; they are very nice; C-22.
- Semi-double Rose. CHRY-37DZ. 30¢
- macrophyllum. CH Y-28. 30¢
- Tansy C. Small white or yellow rays; 2 1/2 ft; HP.
- Mawil. CHRY-29. 30¢
- White ray fls, rose on back; 1 ft; for a sheltered sunny place; HHP; C-23.
- Nivellei. CH Y-35. 30¢
- Erect HA; 1 ft; rays white; free flowering; golden yellow; long stems; July-Sept; space 12"; single. Oz. 50¢.
- Parthenium. CHRY-37. 25¢
- Feverfew. Perennial; fl-heads in open clusters. They are used in the border and are nice for cutting; C-8; LW.
- from seed; space 12"; HP; for GH sow Jan first.
- aureum. CHRY-27A. 25¢
- crispum. CH Y-27C. 25¢
- Golden Moss. Very dwarf with curled Parsley-like foliage.
- selaginoides. CH Y-27S. 30¢
- Finely cut golden foliage.
- alba plenissima. CHRY-47A. 25¢
- Single fls. excellent. 1/2 Oz. 60¢.
- Double White. CHRY-27D. 20¢
- Very popular for cut flowers. C-27A.
- Double Rose. CH Y-27RZ. 30¢
- Semi-double fls. 1/2 Oz. \$2.00
- Very popular as cut fls. 1/2 Oz. \$2.00.
- Early Flowered Mixed. CH Y-27X. 25¢
- Single and double; Japanese seed

CHRYSOPSIS. (Kris-OP-sis)

- Cinnosita. Golden Aster. Daisy-like yellow heads of ray or disk flowers on 1-3 foot plants, thriving in a dry sunny part of the border; HP.
- arabifolia. CHSO-1. 50¢
- Grows to 20 inches; Colo; HP
- matana. CHSO-8. 30¢
- Golden Aster. Flower heads 1" ac in panicked corymbs; 2 ft; (IV); HP.

—*villosa*. **CHSO-10. 25¢**
Golden Aster. Heads 2 inches ac; golden yellow; 1 ft; HP.

CHRYSOETHAMNUS. (chiss-oh-THAM-nus)
Compositae. Low shrubs of W. N. Am. growing in dry locations; flowers in heads of yellow disk.

—*gravelens*. **CHRH-1. 35¢**
Grayish bush; short spikes; 5 ft; HSh (II).

CIBOTIUM. (sib-BOH-tee-um)
Dicksoniaceae. Tree ferns usually grown in the GH in its juvenile form.

—*Schiederi*. **CIBO-6. 50¢**
To 15 ft; fronds 5 ft long; very nice; Mexico.

CIMICIFUGA. (sim-iss-SIFF-yew-guh)
Bugbane. Ranunculaceae. Erect, tall herb. perennials, usually found in shady rich woods; related to Actaea.

—*racemosa*. **CIMI-14. 40¢**
Am. Bugbane. 2-4 ft; decid; showy white frag. fls in panicles; Aug-Sept; rich shady places. **PLANTS: 70¢; 3-\$1.60.**

—*foetida*. **CIMI-8. 30¢**
—*racemosa*. **Plants Only.**
Cohosh Bugbane. Decid; 4-8 ft; white fls in long wand-like racemes; very showy; June-July; moist shade. **PLANTS: 75¢ each; 3 for \$1.60**

CINCHONA.
Rubiaceae. Peruvian Bark Tree. Sh and trs of the Andes; quinine tree can be grown in the GH; IX.

—*calisaya v. hedgeiana*. **CINC-1H. 30¢**
Tall tree; whitish or rose fls; Bolivia.

—*succirubra*. **CINC-13. 40¢**
Tall tree; rose fls; Ecuador.

CINERARIA

Compositae. Botanically Senecio Cruentus. Listed here are only the greenhouse type grown as pot plants. Sow from April to September, May and June being the main months; (C-8).

—*multiflora nana*. **CIN-2. \$1.00**
Dwarf compact plants; large flowers; an excellent range of colors. 1/32 Oz. \$2.00.

—*Prize Exhibition*. **CIN-5. \$1.00**
Extra good Holland strain; large flowers. 1/32 Oz. \$2.00.

—*Blend*. **CIN-X. 50¢**
A blend of the above strains

BENARY STRAIN CINERARIAS

I offer the famous German grown strain of Ernest Benary, long known as the leading florist strain. Plant only the best.

—*American Market Strain*. **CIN-1A. 50¢**
Largest heads of medium sized flowers; choice colors. 1/16 Oz. \$1.50.

—*Siter's Rainbow Strain*. **CIN-4. \$1.00**
Small leaved, early type; immense flower heads of medium large, bright eyed blooms. 1/16 Oz. \$4.00.

—*Cremers Prize Strain*. **CIN-1. \$1.00**
A more dwarf and compact type than the Siter's strain; especially recommended for florist trade; bright color range. 1/16 Oz. \$4.00.

—*Berlin Market*. **CIN-2B. \$1.00**
Full heads of medium sized flowers in a rich color range; perfect market plants. This strain is much improved and can be

had in dark blue, dark crimson, Corn-flower blue, crimson, rose, white or dark purple-velvet as well as mixed. Packets contain 1,000 seeds for \$1.50.

—*Benery's Dwarf Erfurt*. **CIN-BE. \$1.00**
Only 8" tall and 10-12" across heads; for small pots; dense, high vaulted flower-heads of medium sized flowers. 1/16 Oz. \$4.00.

—*Matador*. **CIN-BM. 75¢**
Deep copper-scarlet. 1/16 Oz. \$2.50.

—*Pandora*. **CIN-BP. 75¢**
Rosy red; showy color. 1/16 Oz. \$2.50.

—*Benary's Mammoth*. **CIN-6M. \$1.00**
NEW. Exhibition Strain. Extraordinary sized flowers up to 4-5 inches across. 1/32 Oz. \$5.00.

—*Benery's Maxima Nana*. **CIN-6N. \$1.00**
Large flowered; dwarf plants; Benery's true strain; all prize varieties included. 1/32 Oz. \$4.00.

CINNAMOMUM. (sim-ah-MOH-mum)
Lauraceae. Aromatic shs or trs native of Asia and Australia; not hardy above (X) zone; transplant seedlings to pots before setting to permanent locations.

—*Camphora*. **CINN-2. 40¢**
Camphor Tree. Makes a good street tree in far South; 250 seeds to oz; 40 ft. **Oz. 90¢.**

—*glanduliferum*. **CINN-8. 30¢**
Himalayan tree; fls in panicles, 2" long; good tree for far South.

CIRSIUM. (SUR-si-um)
Compositae. Plumed Thistle. Rank growing prickly plants with purple, yellow and white flowers in heads; easily grown; for bold effect in the wild garden.

—*asutrinum*. **CIRS-1. 25¢**
Blue Sailor. **Oz. 50¢; lb. \$5.00.**

—*Diacantha*. **CIRS-3. 35¢**
(Chamaepease d.) Fishbone Thistle. HB; 3 ft purplish fl-heads.

—*occidentale*. **CIRS-13. 30¢**
Silvery fol; scarlet fls, pretty; 2 ft; HB.

—*candidissima*. **CIRS-13C. 30¢**
White tomentosa foliage; 2-4 ft; HB.

CISSUS. (SIS-us)
Vitaceae. Mostly tendril-climbing shrubs; GH in N and outside in S.

—*antarctica*. **CISS-5. 40¢**
(Vitis) Australia; tendril-climbing sh; probably hardy in (X).

—*Juttae*. **CISS-23. 50¢**

CISTUS. (SISS-tus)
Cistaceae. Rock Rose. Not hardy in the far N; best in full sun, dry light soil with lime present; the flowers are much like miniature Roses; can be started in pots, do not prune much; best sown in sp; germ. readily; seedlings inclined to damp-off.

—*ladaniferus*. **CIST-10. 30¢**
Gum C. Pretty shrub with white flowers. spotted purple; good in rocky ground or stony banks or dry soils; 3 ft; HSh.

—*purpurea*. **CIST-17. 30¢**
Purple fls, yellow at base, 3" ac; hybrid; (VIII).

CITRUS.
—*aurantifolia*. **CITR-1. 30¢**
Florida Lime.

PRINT THE SYMBOLS WHEN ORDERING

CLADANTHUS.

(klad-ANTH-us)

—**arac.cus.**

CLAD-2. 30¢

Palm Spring Daisy. Golden yellow daisy like fls; easy; very floriferous; dry places; 2 ft; HA.

—**lutea.**

CLAD-2. 30¢

Fragrant fls, 1" long; June; (IV); plant in the spring; (Virgelia lutea).

CLADRASTIS.

(klad-RAST-iss)

Yellow-Wood. Leguminosae. Trs native of N. Am. and E. Asia; fls in panicle racemes; ornamental; plant seed in spring, best.

—**amurensis:** see *Maachia amurensis*.—**alycaarra.**

CLAS-5. 30¢

Tr to 50 ft; fls white with yellow spots at base; Japan. Oz. 60¢; lb. \$3.00.

CLARKIA

Onagraceae. Annuals easily grown in a sunny place, light soil. They make pretty border plants, 2-3 ft. high, in upright bush form, blooming in July-August; space 1 ft; apart; HA; germinates 9-20 days.

They are one of the best annual flowers. Very easily grown and germinates quickly doing well in most all types of soil. The color range is very large; both species can be planted in the fall in the South.

C. ELEGANS. This is the best species and contains the best colors; grow the doubles; give a rich soil and some support and they will produce wonders. These are also excellent for the cool greenhouse.

—**Brilliant.** CLAR-1B. 20¢

Double; brilliant orange.

—**Enchantress.** CLAR-1E. 20¢

Double; salmon-pink; large

—**Firebrand.** CLAR-1F. 20¢

Brilliant copper-scarlet.

—**Gloriosa.** CLAR-1G. 20¢

Distinct break in color; bright crimson.

—**May Blossom.** CLAR-1M. 20¢

Pure glowing orange; double.

—**Illumination.** CLAR-1L. 20¢

Orange mingled with rose; outstanding.

—**Orange King.** CLAR-1K. 20¢

Bright orange-scarlet; best orange.

—**Purple Prince.** CLAR-1P. 20¢

Very double in rich purple.

—**Salmon Queen.** CLAR-1S. 20¢

Best double salmon-rose.

—**Vesuvius.** CLAR-1V. 20¢

Glowing orange-scarlet; 2 ft.

—**White Prince.** CLAR-1W. 20¢

Best double pure white.

—**Novelty Blend.** CLAR-1X. 20¢

1/2 Oz. 40¢.

C. PULCELLA: Grows 18 inches high and comes in many different colors; fine for the border; HA; July-Sept; C-2.—**White Beauty.** CLAR-4W. 25¢

NEW. Charmingly frilled double fls carried in clusters at top of plant; excellent for both border or potting; 2 ft; HA.

—**Single Mixed.** CLAR-4SX. 20¢—**Double Mixed.** CLAR-4DX. 20¢—**Double and Single Mixed.** CLAR-4X. 20¢CLARY: see *Salvia Horminum*.**CLEISTOCACTUS.**

Cactaceae. Slender S. Amer. Cacti; orange flowers.

—**Herzogianus.** CLEI-8. 50¢

Tree-like; 7 ft; bright red fls, 2" long; Bolivia.

—**Hyalacanthus.** CLEI-10. 50¢**CLEMATIS**

Ranunculaceae. Virgin's Bower. Woody climbing plants thriving in a rich loamy soil on the alkaline side; mulch soil at base of the plants; best results for species obtained when seeds are sown in Feb. (KLEM-ah-tis).

—**alpina.**

CLEM-5. 30¢

Blue-violet fls, 1/2" long; climber to 6 ft. seed sown in Oct. will germinate following spring.

—**Baidwinii.**

CLEM-14. 35¢

(Viorna) Pine Hyacinth. Erect plant to 18"; fls urn-shaped, purple or pinkish, 1" long; Fla.

—**Buchananiana.**

CLEM-19. 40¢

Climbing; fls 3" ac in panicles; Himalayas

—**chrysocoma v. serica.** CLEM-24S. 50¢

(C. Spooneri) 20 ft climber; white or pink flowers 3 1/2 inches across.

—**campaniflora.**

CLEM-22. 40¢

Climbing; fls 3" ac in panicles; Himalayas

—**columbianum.** CLEM-27. 30¢

Blue or purple flowers; 10 ft; June.

—**crispa.** CLEM-29. 25¢

Bluish purple, nodding; fragrant; June-Sept; 10 ft; Texas. PLANTS: 65¢ ea; 3-1.75.

—**dioscorefolia v. robusta.** CLEM-33R. 50¢

(paniculata) Oz. 90¢. (name recently changed).

—**Douglasii.**

CLEM-34. 50¢

(C. hirsutissima) Erect; 2 ft; flowers tubular, purple inside.

—**Flammula.**

CLEM-42. 35¢

15 ft cl; fragrant fls 3/4" ac; in panicles; Aug-Oct. 1/2 Oz. 60¢; lb. \$5.00.

—**foetida.** CLEM-45. 40¢

Climbing; yellowish fragrant fls, 3/4" ac;

N. Z.

—**fujisanensis.**

CLEM-49. 35¢

From Japan.

—**heracleifolia v. stans.** CLEM-58S. 35¢

4 ft erect plant; China.

—**Davidiana.** CLEM-58D. 50¢

Dense clusters deep blue frag. fls; 4 ft;

HP.

—**indivisa.** CLEM-63. 40¢

Climbing N. Z. Clematis. White fls, 4" ac

in spring; should be grown indoors in N.

—**koreana.** CLEM-70. 50¢

Prostrate climber; yellow or violet fls.

—**lathyrifolia.** CLEM-77. 30¢

Vigorous climber; inch wide panicles of

white flowers.

—**macropetala.** CLEM-81. 50¢

25 ft. climber; white fls turning pink, yellow

stamens; fragrant.

—**paniculata:** see *C. dioscoreifolia v. robusta*.—**pater-s.** CLEM-90. 35¢

12 ft cl; solitary fls, 6" ac; white to violet;

Japan.

—**Pitchevi.** CLEM-92. 30¢

Urn-shape flowers; purple; 1 inch long.

—**pubescens.** CLEM-95. 35¢

W Australian species; moisture loving;

cream fls; similar to *C. aristata*.—**recta.** CLEM-98. 30¢

An erect plant to 5 ft; white flowers, 1

inch across; fragrant. Oz. 50¢; lb. \$3.00.

—**mandschurica.** CLEM-98M. 50¢

Erect; 5 ft; white flowers 1 inch across;

panicles are longer. 1/8 Oz. \$1.25.

—**reticulata.** CLEM-102. 40¢

(Viorna r.) Cl. to 10 ft; fls urn-shaped,

yellowish, pale violet inside; July; (V).

1/4 Oz. \$1.00.

—**Scottii.** CLEM-103. 30¢

Erect; urn-shaped purplish brown flowers;

May-June; Wyoming.

—**Spooneri:** see *C. chrysocoma v. serica*.—**Thunbergii.** CLEM-112. 30¢

Climber; flowers 2 inches ac; panicles;

Rhodesia.

Vitalba.

Travelor's Joy. Cl to 30 ft; greenish white fls; July-Sept. Oz. 40¢; lb. 1.50.

—N. Z. Native.

Creepers, with small cream fls followed by very attractive seed heads; fine on fences as shelter.

—virginiana.

Cl. to 20 ft; fls white, 1" ac; Aug-Sept; N Amer; (IV). PLANTS: 50¢ each; 3-\$1.35.

—Viticella.

Climber to 12 ft; blue flowers with yellow stamens; fls 2" ac. Oz. 50¢; lb. \$1.50.

—Clematis Mixture.

CLEM-X. 25¢

CLEMATOPSIS.

(klem-ah-TOP-sis)

Seeds offered come for South Rhodesia; the plants drought-resistant; full sun.

—Staneyii.

CLTP-1. 40¢

Shock-Headed-Peter. Drooping white anemone-like flowers; 4-5 ft.

CLEOME.

(klee-OH-mee)

Capparidaceae. Spike Flower. Easily grown from seed in May; germinates quickly; thin plants to 18-24 inches. They are 4-5 ft. high and make showy plants in the border, flowering from June till frost; HHA; (C-7).

C. SPINOSA: (C. gigantea and pungens) Spider Flower. HHA; July-Sept; 3-4 ft; space 18" apart; C-7.

—Helen Campbell.

CLIO-5H. 20¢

Pure white variety. ½ Oz. 50¢.

—lutea.

CLEO-3. 25¢

Golden yellow species; 3 ft; Colo.

—Pink Queen.

CLEO-5P. 20¢

Clear soft pink turning to apple-blossom.

—Mrs. Colen Campbell.

CLEO-5C. 25¢

A NEW pure white just introduced; fine.

—Rose Queen.

CLEO-5Z. 20¢

A pure rose. ½ Oz. 50¢.

—Mixed.

CLEO-X. 20¢

CLERODENDRUM. (klee-row-DEND-rum).

Verbenaceae. Glory Bower. Trs, shs and plants with flowers in terminal cymes or panicles; GH or out doors in S; showy.

—Colebrookianum.

CLE i-2. 40¢

Sh 8 ft; rose-purple to white; India; (X). About 75 seeds to ounce.

—japonicum.

CLER-9. 40¢

(C. squamatum). Sh to 10 ft; bright scarlet fls in panicles; China.

—myrcoides.

CLER-12. 40¢

Butter-fly Bush. Lovely blue fls; sun; E. Af. (X).

—speciosissimum.

CLER-16. 40¢

(C. fallax) Sh to 4 ft; bright scarlet fls; 2" ac; Java; (X).

—trichotomum.

CLER-17. 50¢

Sh to 10 ft; white fls in panicles; hardy N; Japan. Oz. 60¢; lb. \$3.75.

CLETHRA.

(KLETH-ruh)

White Alder. Clethraceae. Shrubs and small trees; start seeds indoors in the spring; most are hardy in the IV zone.

—alnifolia.

CLET-3. 30¢

Sweet Pepper Bush; Summer Sweet. 10 ft; Me-Fla; fls in racemes; (IV).

—rosea.

CLET-3R. 30¢

A nice pink hybrid.

—arborescens pl.

CLET-4D. 35¢

Double fls; evergreen; 20 ft; (IX).

—barbinervis.

CLET-5. 50¢

To 30 ft; fragrant fls in paniced racemes. Oz. 90¢; lb. \$5.00.

—tomentosa.

CLET-9. 35¢

Mussel-shell Creeper. Blue and white fls mixed; showy; (VIII).

CLIANTHUS.

(kly-ANTH-us)

Leguminosae. Leguminous shrubs and very striking when in flower; fairly hardy and will stand down to 20 deg. F. if not for too long; shade at roots recommended; soak or file seeds; will not germinate otherwise.

—Dampieri.

CLIA-1. 40¢

Glory Pea, Desert Pea. Scarlet fls with large purplish black blotch at base; Aust.

—puniceus.

CLIA-3. 30¢

Red Kaka Beak. One of the earliest N. Z. known plants (1775); flowers large and like a parrot's beak; there is a pink form even prettier; is variable from seed; there is a great opportunity for hybridizing here.

—alba.

CLIA-3A. 35¢

White flowered variety.

CLINTONIA.

(klin-TOH-nee-uh)

Liliaceae. Attractive plants spreading by underground rhizomes but not invasive; shade; moist woodsy places; showy in colonies; slow to germinate.

—borealis.

CLIN-2. 50¢

Greenish yellow nodding fls; 1½ ft; blue branches; Calif.

CLITORIA.

(kly-TOR-ec-ah)

Leguminosae. Butterfly Pea. Twining vines hardy into the VIII Zone.

—ternata.

CLIT-4. 35¢

Twiner; double blue fls; showy; (VIII)

CLYCLOSORUS.

—pennigerus.

CLYE-12. 40¢

A beautiful N. Z. fern with fronds 2-3 feet long.

CNEORIDIUM.

Rutaceae. Evergreen shrubs native to S. alifornia.

—dumosum.

CNEO-1. 25¢

White fls followed by brown fr; 2-4 sh; S. Calif.

CNIDOSCOLUS.

Tread-Softly. Euphorbiaceae. Perennial Amer. plants; few of ornamental value, especially in wild garden; others medicinal herbs.

—texanus

CNID-5. 25¢

Bull Nettle. Texas; 2 ft; perennial.

COBAEA.

(koh REF ah)

Polemoniaceae. Climbers with pretty bell-shaped, violet or white fls; popular GH plant; sow seed during March in GH; place seed with long edge downwards; germ. to 3-4 weeks; 70-75 F; plant out in June.

—scandens.

COBA-2. 30¢

Climber to 25 ft; violet or greenish purple fls 2" long; sow indoors during Feb. or Mar., 3 seeds to pot thinning to one; sow seed edgewise. Oz. \$1.50.

—alba.

COBA-2A. 30¢

Oz. \$2.40.

COCCOLOBUS.

(kok-KOL-oh-biss).

Snail Seed. Menispermaceae. Easily grown in moist soils; fls small and showy.

—carolinus.

COCL-2. 75¢

Carolina Moonseed. Twining red fruits; (IV); HP. Oz. 80¢.

COCHLEARIA.

(kok-lee-AY-ri-ah)

Crucifera. Scurvey Grass. Grown as a salad plant; grow as HA; ready in 60-80 days; cool partly shaded places.

—**officinalis.**

Used as salad for its medicinal properties; HP grown as an HA.

—**Erfurt Tree.**

An improved German variety; the lvs contains much vitamine C; used as a salad.

COCKLOSPERUM.

Cocklospemaceae. Trop. trs and shs; fls in panicle or racemes; new or p seeds usually in November. (kok-loh-SPUR-re-mum)

—**gossypinum.****COCOS.**

Palmaceae. Coconut.

—**campestris.**—**nucifer.**

The common Coconut of S. Fla.; easily grown; cover seed about half, when they germinate quickly. Price is for one seed; if interested in more ask for prices.

—**Yatay:** see **Butia Yatay.**—**plumosa:** see **Arcestrum Romanzoffianum****CODONOPSIS.** (koh-doh-NOP-siss).

Campanulaceae. Perennials with shades of blue and yellow flowers with darker veins and blotches; a few are climbers; they require winter protection in the N, but are not real hardy. Sow seeds in Feb. or March at 50 deg. F.; leaf mold gives good results.

—**assuriensis.**—**ciematidea.**

Bell-shaped fls with white or yellow centers; 1 ft; HP.

—**ovata.**

Semi climber; soft blue bells; June; cool soil; sun.

—**viridiflora.**

Climber; yellowish green fls with purple dot at base.

CODIAEUM.

Croton. Euphorbiaceae. Tropical foliage plants, grown for their beautiful leathery lvs in many colors; GH plants in N; sunny place.

—**capitatum.**

Woody Croton. Lvs gray, very woolly; HHA; 1-2 ft.

COELOGYNE.

Orchidaceae. Tropical epiphytic orchids with long racemes of white or greenish yellow flowers.

—**barbata.**

White with brown lip, fringed with brown; Oct-Feb.

—**cristata.**

Showy white, drooping racemes; Feb-April; (X).

COFFEA.

Rubiaceae. Grown in the U. S. in zone (XI) and as a pot plant indoors.

—**arabica.**

The common Coffee. Sh to 15 ft.

—**robusta.****COIX.**

Gramineae. Grasses with broad leaves and bead-like seeds; space 12" apart; can be started indoors in March.

—**Lacryma-Jobi.**

Job's Tears. A TP but best grown in the N as an annual; 12"; germination period variable, plant first of May in (V) zone. Oz. 50¢; lb \$3.75.

Start nearly all biennials and perennials up to August 1st; some even later.

COCR-1. 25¢**COCR-1E. 25¢****COCH-4. 50¢****COCO-1. 50¢****COCO-4. \$1.00****COD-1. 30¢****COD-2. 25¢****COD-4. 40¢****COD-10. 25¢****COLE-1. 30¢****COLE-2. 30¢****COLE-26. 40¢****COLE-4. 30¢****COLE-7L. 30¢****COLE-XL. 25¢****COLE-5. 30¢****COLE-6. 30¢****COLE-7. 30¢****COLE-8. 50¢****COLE-9. 30¢****COLE-11. 40¢****COLE-10. 50¢****COLE-X. 25¢****COL-1. 25¢****COL-2. 30¢****COL-3. 30¢****COL-4. 30¢****COL-5. 30¢****COL-6. 30¢****COL-7. 30¢****COL-8. 50¢****COL-9. 30¢****COL-10. 50¢****COL-11. 40¢****COL-12. 50¢****COL-13. 50¢****COL-14. 50¢****COL-15. 50¢****COL-16. 50¢****COL-17. 50¢****COL-18. 50¢****COL-19. 50¢****COL-20. 50¢****COL-21. 50¢****COL-22. 50¢****COL-23. 50¢****COL-24. 50¢****COL-25. 50¢****COL-26. 50¢****COL-27. 50¢****COL-28. 50¢****COL-29. 50¢****COL-30. 50¢****COL-31. 50¢****COL-32. 50¢****COL-33. 50¢****COL-34. 50¢****COL-35. 50¢****COL-36. 50¢****COL-37. 50¢****COL-38. 50¢****COL-39. 50¢****COL-40. 50¢****COLCHICUM.**

Autumn Crocus. Liliaceae. Mainly autumn blooming cormous plants; bulbs should be planted 2-3" deep during Sept; seed in the spring; rich, sunny soil; germination best after a cold spell; C-24.

—**giganteum.**

Planted in RG or grass; HHHb; 12"; pink flowers; for bulbs see Bulb List.

COLEUS

Labiatae. Showy plants with brilliantly colored leaves; sow seed in pans at 65 F; March is good month to start them.

Coleus if kept under continuous lights will form leaves of a beautiful dark green color with bright green edges. Less than 10 hours of light will produce inferior plants and colors. (KOH-lee-us).

SAIER'S MARKET STRAIN. COLE-12.50¢

New strain with extra large leaves distinguished by their beautiful colors; mostly in light pastel shades, robust growth; best strain for the market gardener. 1/4 Oz. \$4.00

—**Brocade Strain.**

A large leaf strain in rich velvety colors.

—**Fringed Leaf Mixed.**

So. Af species; mauve fls; 15 inches.

—**Glory of Vichy.**

Small leaves; lacinated; mixed. 1/16 Oz.

—**lacinatus.**

Metallic shining; light red to dark brown-red; fine.

—**Pride of Montferland.**

Robust and compact growth; best for market growing. 1/2 Oz. \$2.50.

—**Pyrenean Giants.**

Large robust plants excellent bedder.

—**Super Colosal.**

Striped green, yellow and brown leaves.

—**hybridus, Orthello.**

Black; comes true from seed.

—**Monarch Strain.**

Rainbow Blend.

—**metallicus.**

Striped green, yellow and brown leaves.

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USE SYMBOLS WHEN ORDERING SEED

COLLINSONIA.

(kol-in-SOH-nee-uh)

Horse Balm, Stone Root, Labiatae. Aromatic per; grown in moist woody places.

—**canadensis.****PLANTS ONLY**

Citronella. Decid; 1-3 ft; yellowish fls, lemon scented; damp rich woods.

PLANTS: 60¢ each; 3 for \$1.55.**COLUTEA.**

(koh-LEU-te-ah)

Sow seed in spring either in flats or open ground; sow thinly and firmly, during Feb. best; some species do not produce seed.

—**arborescens.****COLU-1. 25¢**

Fresh seed Sept-Dec; 700 seeds to oz. Oz. \$1.50.

COLVILLEA.

Leguminosae. One African tree with very showy bloom; (IX).

—**racemosa.****COLV-1. 40¢**

African trailer for far S; showy flowers, scarlet with yellow stamens in dense drooping racemes 18" long. 100 sds \$3.00. 60 seeds to ounce.

COMMELINA.

(kom-el-LYE-nuh)

Commelinaceae. Day Flower. The fls last but one day; grown out doors or GH.

—**crispa.****COMM-6. 40¢**

Creeping per. stems 3 ft long; light blue fls with lower petals white; Texas.

—**diffusa.****COMM-8. 40¢**

(Sellowiana) Creeping perennial; good ground cover; (IV).

CONVOLVULUS.

(kon-VOLV-yew-lus)

Convolvulaceae. Bind-weed. Flowers are similar to the Morning Glory; much used as vines for covering unsightly places. The "Wild Morning Glory" a bad weed is C. arvensis. (C-1).

—**Canabrica.****CONV-4. 35¢**

Erect or prostrate; 2 ft; rose or pink fls in clusters, 1½" long.

—**Crimson Rambler.****CONV-1. 25¢**

Climber to 10 ft; crimson fls; HHA.

—**inca-us.****CONV-11. 40¢**

Trailing, gray HP; 3 ft; fls rose to white; (III).

—**tricolor.****CONV-22. 25¢**

Deep blue, yellow and white fls; HA.

Oz. 50¢; ½ Lb. \$2.00.

—**Cambridge Blue.****CONV-22C. 25¢**

A clear azure-blue variety; 1 ft. pretty.

—**Minor, Dwarf Mixed.****CONV-22MX. 20¢**

Richly colored in shades of blue, white and rose; does well in poor soils; 1 ft; HA.

—**Lavender Rosette.****CONV-22L. 25¢**

Very attractive variety of prostrate habit; lavender-blue fls; 9"; HA; trailing.

—**Royal Ensign.****CONV-22R. 25¢**

Deepest blue; ideal bedder or edger; 12".

—**antitarsis.****CONV-14. 40¢**

Prostrate; deep blue, 2" ac; basket and ases; (IX); HP; Af.

—**rand.****CONV-17. 25¢**

Dainty species; 12"; pure white; sun; lvs silvery.

—**Cambridge Mixed.****CONV-X. 25¢****COOPERANTHES.**—**Rehderi.** **COOP-50. 40¢**
Beautiful hybrids of Zephurines-like fls; fresh seeds available during May.**COOPERIA.**

(koh-PEER-ee-ah)

Amaryllidaceae. Rain-lily. Bulbus night blooming plants with basal grass-like leaves. The flowers are fragrant and white or pink in the North but can be carried over in dry

soil in frost proof room.

—**pedunculata.****COOP-3. 40¢**

Tender bulb; white fls tinged red; Texas.

COPROSMA.

(kop-ROSS-muh)

Rubiaceae. Very variable genus from N. Z. and nearby countries; many are exceptionally handsome in fruit, displaying tightly clustered masses of bright berries. Probably all are hardy above the (IX) zone.

—**Baueri.****COP-1-4. 40¢**

Compact growing sh; dark green shining lvs; good on sea coast; hedges; 10 ft; (X); N. Z.

—**grandiflora.****COPR-10. 40¢**

Distinct; membranous evergreen; white fls; reddish orange berries; 15 ft; (X).

—**lucida.****COPR-11. 35¢**

15 ft; lvs leathery and glossy; reddish orange fruits; N. Z.

—**propinqua.****CRPR-16. 25¢**

Dark glossy green lvs; white fls followed by yellowish to reddish orange berries; 10 ft; (IX); N. Z.

—**robusta.****COPR-26. 3¢**

Dark glossy green lvs; white fls followed by yellowish to reddish orange berries; 10 ft; (IX); N. Z.

—**rotundifolia.****COPR-29. 30¢**

To 20 ft; red fruits; N. Z.

COPTIS.

(KOP-tis)

—**trifolia.****COPT-11. 40¢**

Very hardy; (II).

CORDIA.

(KOR-dee-ah)

Boraginaceae. Tropical trees and shrubs grown in the GH in the North or out side in the South.

—**Boissieri.****COR-2. 30¢**

Wild Olive. To 25 ft; Texas; (IX).

CORDYLENE.

(kor-de-LYE-nee)

Lilaceae. Warm climate trees and shrubs with stiff narrow leaves, many having pretty striped and colored leaves; grown in the greenhouse in the North but are hardy in the South.

—**australis.****CORD-2. 25¢**

Known as the Cabbage Tree. Striking tree of tropical appearance with bushy heads of grass-like lvs, 3 ft long; white, sweet scented fls in large panicles; 20 ft; (IV); makes good pot or tub plant.

—**Banksii.****CO D-4. 50¢**

Leaves longer than C. australis; open and drooping, bronzy; fls white, sweet scented, in large panicles; graceful shrub; ideal for riverside; 8 ft; (V).

—**indivisa.****CORD-12. 25¢**

Dracaena indivisa. Very popular as a center plant, with its long spiked lvs; grown by the GH trade. Oz. \$2.50; lb. \$'8.00.

—**lineata.****CORD-12L. 30¢**

100 seeds \$1.00.

—**major.****CORD-12M. 30¢**

100 seeds, \$' 00.

—**lanceolata.****CORD-12F. 30¢**

100 seeds, \$1.00.

—**pauciflora.****CORD-12P. 40¢**

Very attractive species having distinctive compound foliage; (VII).

—**commisale Hybrid.****CORD-24V. 40¢**

Tree 20 ft long, 5" ac; 10 ft; in many foliage forms.

CORTOPSIS

Compositae. Annual and perennial plants with yellow brown or rose fls. blooming in summer and fall; makes ideal cut-flowers as well as display in the border. The annuals

of this genus, see Calliopsis; C-23; (kor-ree-OP-sis).

C. CANEOLATA: Perennials to 3 ft; flowers grown for cut-flowers or in the border.

—**Golden Baby.** COLE-12GB. 30¢
CO E-12W. 25¢

—**New Gold.** COLE-12N. 20¢
flowers double, rich golden yellow fls; 18";

—**Double Sunburst.** CORE-12S. 20¢
flowers 2 in. across; golden yellow;

comes 80% double. 1/4 Oz. 40¢.

—**Mayfield Giant.** CORE-12M. 20¢
flowers large tatter-yellow fls; true from

seed; almost semi-double.

—**Opis 2 Oz.** CORE-12T. 35¢
(NEW) A new French variety; best of

their introductions.

—**Mixed.** CORE-12X. 20¢

COLEOPSIS SPECIES:

—**Calliopsis efolia.** COLE-E-8. 30¢
Hardy annual; 2 ft; fl-heads, 1" ac, rays

br. to purple at tips, disks dark purple;

K. 1/4 Oz. 75¢.

—**Golden Baby.** CORE-12GB. 30¢
—**Calliopsis efolia.** COLE-E-11 25¢

—**Yellow rays;** 2 1/2" ac; HP.

—**Calliopsis efolia.** CORE-10. 25¢
4 1/2" golden yellow fls; 3 ft; S. Rhodesia

—**Calliopsis efolia.** CORE-17. 25¢
Calliopsis efolia. 3 ft; heads 3 1/2" ac; Calif

—**Calliopsis efolia.** CORE-26. 25¢
heads 1 1/2" ac; 1 ft; HA; Calif;

said to be the quickest to flower from seed;

C-7

—**Calliopsis efolia.** CORE-30 25¢
Calliopsis efolia. C. Deep yellow, heads 2" ac;

3 ft; HP. (ver-tiss-sil-LAY-tah).

CENTAUERS: see Centaurea.

CORIANDER: see *Coriandrum sativum*.

CORIANDRUM. (cor-ee-AN-drum)

Annuals, one species a well known herb

grown for its seeds, used for seasonings.

—**Calliopsis efolia.** COI-I-1. 25¢
Calliopsis efolia. HHA; 3 ft; seed germ. free-

—**Calliopsis efolia.** COI-I-1T. 30¢
Calliopsis efolia. HHA; 3 ft; seed germ. free-

—**Calliopsis efolia.** COI-I-1T. 30¢
Calliopsis efolia. HHA; 3 ft; seed germ. free-

—**Calliopsis efolia.** COI-I-1T. 30¢
Calliopsis efolia. HHA; 3 ft; seed germ. free-

—**Calliopsis efolia.** COI-I-1T. 30¢
Calliopsis efolia. HHA; 3 ft; seed germ. free-

—**Calliopsis efolia.** COI-I-1T. 30¢
Calliopsis efolia. HHA; 3 ft; seed germ. free-

—**Calliopsis efolia.** COI-I-1T. 30¢
Calliopsis efolia. HHA; 3 ft; seed germ. free-

—**Calliopsis efolia.** COI-I-1T. 30¢
Calliopsis efolia. HHA; 3 ft; seed germ. free-

—**Calliopsis efolia.** COI-I-1T. 30¢
Calliopsis efolia. HHA; 3 ft; seed germ. free-

—**Calliopsis efolia.** COI-I-1T. 30¢
Calliopsis efolia. HHA; 3 ft; seed germ. free-

—**Calliopsis efolia.** COI-I-1T. 30¢
Calliopsis efolia. HHA; 3 ft; seed germ. free-

—**Calliopsis efolia.** COI-I-1T. 30¢
Calliopsis efolia. HHA; 3 ft; seed germ. free-

—**Calliopsis efolia.** COI-I-1T. 30¢
Calliopsis efolia. HHA; 3 ft; seed germ. free-

—**Calliopsis efolia.** COI-I-1T. 30¢
Calliopsis efolia. HHA; 3 ft; seed germ. free-

—**Calliopsis efolia.** COI-I-1T. 30¢
Calliopsis efolia. HHA; 3 ft; seed germ. free-

—**Calliopsis efolia.** COI-I-1T. 30¢
Calliopsis efolia. HHA; 3 ft; seed germ. free-

—**Calliopsis efolia.** COI-I-1T. 30¢
Calliopsis efolia. HHA; 3 ft; seed germ. free-

this lot is white seeded.

SAIEA'S RAINBOW CORN. CORN-1. 35¢

This is a multi-type corn growing 6-8 ft high with highly colored ears 8-12 inches long; the kernels are in every imaginable color, red, green, blue, white, cream, purple and with combinations of these colors; it makes pretty displays for fall and winter use, indoors and in combination with Gourds. Lb. 65¢.

Crackerjack Hybrids. CORN-5. 50¢

A new strain in bright colors—bronze, gold, pink, crimson, blue—can be cooked and eaten like Sweet Corn or used as Pop Corn. For winter decoration, cut cobs off plant when kernels have colored well; cut good stem; cob-stalk can be left on but turn back for further display.

CORN SALAD: see *Valerianella locusta* v. *oilitoria*.

CORNUS. (COR-nus)

Cornaceae. Dogwood. Shrubs and small trees, early flowering and showy; easily grown in well drained soil; seeds often require 2 yr to germinate; soak in warm water 2 days before planting; leave out doors during winter.

—**Amomum.** COAS-5. 35¢
(sericea); caerulea) Silky D. 10 ft; fls

cymes, 2 1/2" ac; fr. pale blue; hardy.

—**Brachyopoda:** see *C. macrophylla*.

—**canadensis.** COAS-12. 30¢
Bunch-Berry. Low HP to 10 inches; very

pretty ground cover for rocky and bare

places in moist sandy soils; very hardy;

Oz. 75¢; lb. \$5.25.

—**coarctata.** CO S-14. 35¢
Tree to 60 ft; fls in cymes, 4" ac; bluish

black fr; Himalayas; pH 4-5. Oz. 90¢.

—**capitata.** COIS-13. 35¢
(Benthamia fragifera) 40 ft; fls in dense

heads, creamy white bracts; fr. scarlet;

Himalayas; (X).

—**florida.** COIS-17. 30¢
Dogwood. Small tree; white fls; showy.

Sow seed in fall; cover with sand or peat;

do not "mch" after germination takes

place lift the seedlings during Oct. after

the good roots when they can be trimm-

ed and potted, if wanted for grafting stocks

potting soil must be 5.5 pH; plunge pots

in frost free frames or as to be ready for

grafting when wanted.

Oz. 50¢; lb. \$3.75. d b.

—**Kousa.** CO S-22. 40¢
Tree to 20 ft; dense heads of creamy

white fls. Oz. 50¢; lb. \$3.50.

—**macrophylla.** CO S-23. 50¢
—**mas.** CO S-24. 30¢

—**Conelia Cherry.** Tr. to 20 ft; yellow fls;

excellent forcer. Oz. 60¢; lb.

COROKIA.

(kor-ROH-kee-uh)

Cornaceae. Ev. sh and trs from N. Z.; hardy to (X) zone; seeds germ. well sown during Feb.

—**Cheesemanii.**

CO K-5. 50¢

Slender twiggy shrub with grayish foliage; fls and berries yellow; not common; 9f; (IX).

—**Cotoneaster.**

CORK-7. 50¢

Rigid sh with interlacing black branches; fls yellow, followed by bright berries; 6 ft; (I); N. Z.

—**macrocarpa.**

CORK-15. 50¢

Bushy sh; lvs silvery white underneath; yellow fls; berries golden yellow; 10 ft; (X); N. Z.

CORPANTHA.—**vivipara.**

CORH-74. 50¢

Cacti. Ball to 4" ac; crown silky carmine; (II) HP.

CORTADERIA.

(kor-ta-DEE-re-ah)

Pampas Grass. Gramineae. Ornamental grasses not hardy in the N. They thrive in light rich soil. They are pretty; start indoors in Jan. or Feb. in the N and grow on in pots; they will not stand frosts.

—**Selloana.**

CORT-2. 25¢

(C. argenteum) Tender ornamental grass; 20 ft; TP.....½ Oz. 90¢.

—**rosea.**

CORT-2R. 25¢

A type with pinkish plumes.

CORYDALIS.

(koh-RID-al-is)

Fumariaceae. Yellow, rose, blue or purple dicentra-like fls in terminal racemes; they are easy to grow in fair garden soil; slow to germinate.

—**cheilanitifolia.**

CORY-7. 50¢

Lemon-yellow fls amid ferny fol, tinged gray and maroon; HP; China.

—**lutea.**

CORY-12. 40¢

Maidenhair-fern-like fol; spikes of vivid yellow tubular fls; May-June; sow in April.

—**ovata.**

CORY-16. 30¢

Golden yellow; non-rampant; very early; 10"; HP.

—**ochroleuca.**

CORY-19. 40¢

Yellowish white fls; 15 inches; HHP; Italy

—**Wilsonii.**

CO Y-40. 50¢

Silver fol in basal rosettes; yellow plumes in summer; HP; China.

CORYLOPSIS.

(kor-ri-LOP-siss)

Winter Hazel. Hamamelidaceae. Ornamental decid. shs native of Asia, with fragrant yellow fls in nodding racemes; peat and sandy soil; hardy in (V) zone or with protection in the North.

—**pauciflora.**

CORP-6. 40¢

Japan. Oz. 75¢; lb. \$5.00

—**glabrescens.**

CORP-12. 35¢

(G. toan) Sh; 20 ft; racemes 1" long; Japan. Oz. 60¢; lb. \$5.50.

—**spicata.**

CORP-16. 30¢

Sh. 6 ft; Japan; fls in racemes, 1" long; Japan. Oz. 60¢; lb. \$5.50.

CORYLUS.

(KAR-i-lus)

Hazelnut. Filbert. Betulaceae. Decid. trs and shs grown for ornamental and edible nuts; seed best planted soon after ripening; pots can be plunged in open ground over the winter.

—**Avellana.**

CORT-2. 25¢

European Hazelnut. 15 ft. Oz. 50¢; lb. \$1.70.

—**heterophylla v. japonica.**

CO L-12V. 50¢

Tr or sh to 25 ft; Asia. 4 Oz. \$1.00

—**mandahurica.**

CORL-13. 50¢

—**Sieboldiana.**

COEL-16. 50¢

Japanese Hazelnut. (rostrata) Bush to 15 ft. 4 Oz. \$1.20.

CORYNOCARPUS.

Corynocarpaceae. Handsome tr; glossy green lvs and yellow berries; stands drought well; makes nice tub plant; (XI); N. Z.

—**californica.**

CO U-4. 50¢

Wash.-Calif; lb. \$1.90.

—**laevigata.**

CO U-5. 50¢

Tree to 30 ft; lvs 8" long; greenish fls in panicle to 8" long; nice tub-plan. drought resistant; (XI); N. Z.; 10 seed to ounce.

CORYPHANTHA.

(kor-if-ANTH-uh)

Cactaceae. Cylindrical or ball-shaped small Cacti; fls showy; makes good pot plants; Mexico to Canada.

—**aggregata.**

CORAN-1. 50¢

Showy fls 3" ac, purplish; very showy in clumps; N. Mexico.

—**Aserias.**

CO AN-7. 50¢

Globular; 5"; white to pink fls; Mexico.

—**Bergeriana.**

CO AN-9. 50¢

Club-shaped, 5" tall; fls white, yellowish center, 1½" long; Mexico.

—**cornifera.**

CO IAN-15. 50¢

Globose; fls yellow, tinged red; Mexico.

—**echinoides.**

CO AN-23. 50¢

Globular, 2" ac; fls rose, 3" ac; Mexico.

—**erecta.**

CO IAN-26. 50¢

Cylindrical, 12" long; large yellow flowers Mexico.

—**Muehlenpfortii.**

CORAN-36. 50¢

Cylindrical, 2" high; greenish yellow fls, striped red; 2" long; W. Texas.

—**odorata.**

CORAN-44. 50¢

—**pseudonickelsiae.** CO IAN-56. 50¢

—**Palmeri.**

CORAN-47. 50¢

long; Mexico.

—**adicans.**

CORAN-59. 50¢

Globose, 3" diam; lemon-yellow fls; 4" ac; Mexico.

—**Variety.**

CORAN-59V. 50¢

—**recurvata.** CORAN-61. 50¢

Globose, 4" diam; fls brownish outside, lemon-yellow outside, 1" long; Arizona.

—**retusa.**

CORAN-62. 50¢

Yellow fls 1¼" ac; Mexico.

—**Schwarziana.**

CORAN-67. 50¢

—**vaupeliana.** CORAN-72. 50¢

Globose; yellow fls; Mexico.

—**werdermanniana.**

CO AN-76. 60¢

Shining golden yellow fls, 3" ac; Mexico.

COSMOS

Showy late flowering annuals and perennials allied to the Dahlia. They are easily grown and thrive even in rather poor soils; indoors; 8-10 ft; germ 8 days; HHA; (KOZ-mos).

C. BIPINNATUS: Half hardy annuals to which belong the commonly known garden forms. Sow direct or may be started indoors; 8-10 ft; C-7; germ; 8 days; HHA.

SENSATION TYPE: Extra large well formed flowers on erect plants; space 20 in.

—**Cardinal.**

COS-C. 20¢

Large showy dark red. ½ Oz. 40¢.

—**Darwin.**

COS-ID. 20¢

A very pretty crimson; 4 ft tall

—**Gloria.**

COS-G. 20¢

—**Pinky.** COS-IP. 20¢

A new clear rose-pink.

—**Radiance.**

COS-IR. 20¢

Deep rose with crimson ring; dandy.

—**one Queen.**

COS-Q. 20¢

NEW. Rose overlaid with clearly defined

crimson zone.

—Scarlet.

—Purity.

A pure white variety.

—Blend of Above.

—Any of Above (except as noted) 1/2 oz. 40¢; oz. 75¢.

TRUE or EARLY FLOWERING: A superior garden strain of large size but early blooming flowers.

—Crimson Queen.

—Rose Queen.

—White Queen.

—Mixed Queen.

HYB ID VARIETIES: These are not as tall growing; excellent in the border and for cutting.

—Fiesta. Brilliant semi-double; fls gold, striped scarlet; NEW; cutting. 1/2 Oz. \$1.50.

—Orange Flame. Large orange flowers. COS-3F. 20¢

—Orange Ruffles. Pretty ruffled orange petals. COS-3R. 20¢

—Yellow Flame. A rich yellow. COS-3Y. 20¢

—Mixed Hybrids. Any of above varieties: Oz. 60¢.

COS-3X. 20¢

COS-3Z. 20¢

COS-2C. 20¢

COS-2Z. 20¢

COS-2W. 20¢

COS-2X. 20¢

COS-1S. 20¢

COS-1W. 20¢

COS-1X. 20¢

COS-1Y. 20¢

COS-1Z. 20¢

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COS-1B. 20¢

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COS-1Z. 20¢

COS-1A. 20¢

COS-1B. 20¢

COS-1C. 20¢

Fl's in many-flowered corymbs; S. Af.
—Mixed. COTY-X. 50¢

COWANIA: see *Geum dryadoides*.

CRASSULA. (KRASS-yew-luh)
Crassulaceae. Mostly succulents from S. Af; hardy in far S; good for window boxes or GH in North.

—*albiflora*. CRAS-4. 50¢

Sub-shrub; out doors in S; GH in North.

—*falcata*. CRAS-40. 50¢

Sh to 8 ft; bright crimson fls; S. Af

—*perfoliata*. CRAS-68. 50¢

Similar to *C. falcata*; fls crimson; S. Af.

CRATAEGUS. (kra-TEEG-us)

Hawthorn, Thornapple. Rosaceae. Fine shrubs or small trees as specimens, mostly hardy in the North. They come very true from seed and germinate slowly; plant as soon as possible after ripening; sow directly to seed beds or plunge containers outside during winter; small lots can be brot inside in March to germinate.

—*Crus-galli*. CRAT-16. 30¢

Cockspur T. White fls tinged with red; red fr; 20 ft; hardy. c. s. Oz. 50¢; lb. \$2.90.

—*Douglasii*. CRAT-19. 30¢

Tree to 30 ft; fls $\frac{1}{2}$ " ac; black shining fr; Minn; (III). c. c. Oz. 60¢; lb. \$400.

—*intricata*. CRAT-35. 30¢

(*C. coccinea*) Dark glossy lvs; fr large scarlet; 15 ft. Lb. \$3.25.

—*monogyna*. CRAT-47. 40¢

English Hawthorne. To 30 ft. fls $\frac{1}{2}$ " ac; fr. bright red. c. s. Oz. \$1.25.

—*Phaenopyrum*. CRAT-60. 40¢

(cordata) Washington Thorn. To 30 ft; fls $\frac{1}{2}$ " ac; bright red fruits; Va.-Ala.

—*Smitiana*. CRAT-69. 40¢

English grown seed.

CRAWFURDIA. (craw-FUR-de-ah)

Gentianaceae. Twining plants from the Himalayas and allied to the Gentians, which see for culture. They are not hardy in North but do well in California; rare in American gardens.

—*japonica*. CRAW-1. 35¢

Dull greenish fls; fleshy fruits; very ornamental; vine; HHP.

—*speciosa*. CRAW-3. 35¢

Blue funnel-shaped fls; vine; the hardest species; HHP.

CREMANTHODIUM.

(cre-man-THOD-ee-um)

—*Thompsonii*. CREM-5. 30.

Lemon-yellow fls, $1\frac{1}{4}$ " across.

CREPIS. (KREEP-iss)

These are showy and very easily grown hardy annuals; flourish in light and dry soils. The fls are dandelion-like and most attractive in the border; colors in red, yellow and orange; space 9" apart; Compositae.

—*conyzifolia*. CREP-2. 50¢

—*blattarioides*. CREP-3. 50¢

—*glomerata*. CREP-5. 40¢

Yellow fls; black anthers; 6-10" high.

—*incarna*. CREP-7. 40¢

Thrives in poor sandy soil; long display of soft pink fls; June-Aug; silvery fol; 9";

RG or border; full sun; HP.

—*Jacquini*. CREP-8. 50¢

—*paludosa*. CREP-10. 30¢

—*pannonica*. CREP-11. 50¢

—*siberica*. CREP-14. 50¢

—Mixed Species. CREP-X. 25¢

CRESS: see *Lepidium sativum*; *Nasturtium*;

Barbarea vulgaris.

CRINUM. (KRY-num)

Amaryllidaceae. Easily grown plants, some species probably hardy in (V) zone; grown very much like Amaryllis.

—*amoenum*. CRIN-2. 50¢

$\frac{1}{4}$ Oz. \$9.00.

CROCUS. (KROH-kus)

While many species of *Crocus* are ordinarily purchased as bulbs, a great deal of interest and pleasure can be had in raising them from seeds; seed germinates best after a cold spell; usually planted in the fall; C-24.

—*vernus*. CROC-41. 40¢

Lilac fls; native of Europe.

—*Crocus Blend*. CROC-X. 25¢

CROSSANDRA. (kros-SAND-ruh)

Acanthaceae. Tropical plants and shrubs grown outdoors in the far S or under glass in the N.

—*nilotica*. CROS-3. 40¢

South Rhodesian species.

—*infundibuliformis*. CROS-2. 40¢

(undulatifolia) Attractive and valuable pot plant with glossy *Gardinia*-like foliage; fls overlapping petals of clear salmon; sow anytime, best in autumn or early spring; flowers in 7-8 months in warm house at least 70 F at night, minimum 65 degrees; rich soil; 100 seeds \$4.00; 500, \$19.00.

CROTALARIA. (kroh-tah-LAY-re-ah)

Leguminosae. Rattle Box. Plants with Sweet Pea-like fls; swollen pods; soak seed in warm water; in the N they can be grown in the greenhouse; soak seeds 24 hours.

—*anagyroides*. CROT-2. 25¢

Shrub to 8 ft; fls yellowish with darker lines; X; Venezuela.

—*capensis*. CROT-6. 30¢

Golden yellow Sweet peas; 5 ft. sh; soak seeds; TSH.

—*macrocarpa*. CROT-10. 40¢

Neat compact bush; yellow fls; 3 ft; S

Africa; TSH.

—*Rhodesiae*. CROT-14. 30¢

Procumbent; golden orange fls; RG; sun

light soils; TSH.

—*usaramensis*. CROT-19. 30¢

—Mixed Species. CROT-X. 25¢

CRUCIANELLA. (kro-she-an-NEL-ah)

Rubiaceae. Crosswort. Annuals and perennials of Medit. region and W. Asia; partial shade; RG.

—*stylosa*. CRUC-6. 35¢

Pink fls; plant prostrate; Persia; HHP,

RG; C-23. Oz. \$2.50.

CRYOPHYTUM. (krye-OFF-it-um)

Aizoaceae. (*Mesembryanthemum*) Annual and biennial low growing plants; solitary red, yellow or white fls; lvs glisten.

—*crystallinum*. CRYO-3. 30¢

Ice Plant; HHA; used as ground cover in South; in N good plant for window boxes. $\frac{1}{2}$ Oz. 75¢.

CRYPTOMERIA. (krip-toh-MEER-ee-uh)

Taxodiaceae. One Japanese evergreen tr; pyramidal habit; beautiful growth and used as street trees; germ. at 60 F; 15 days.

—*japonica*. CRYM-1. 35¢

Hardy to D. C. and up to N. E. states; (V).

sow seeds in spring if wanted for stocks.
Oz. 50¢; lb. \$3.00.
—*tortia*.

CRYM-1T. 35¢

CRYPTOSTEGIA. (krip-toh-STEE-ji-ah)
Asclepiadaceae. Rubber Vine. Woody vine
from tropical Af; grow indoors; sandy loam.
—*madagascariensis*. **CRYG-8. 50¢**
Pink or whitish fls; 2" ac; thick glossy
lvs; (XI).

CUCUMIS. (KEW-kew-mis)
Tender annual vines to which the Cucum-
ber and Melon belong. They are mainly
grown for their edible fruits; some are or-
namental as well.

—*Anguria*. **CUCU-1. 25¢**
West India; Burr Gherkin. Fruits curi-
ous and used in pickles; trailer or cl.

—*dipsaceus*. **CUCB-2. 25¢**
Teasel Gourd. Grown for curiosity and
ornament; Arabia.

—*anguineus*; see *Trichosanthes*.
—*melanosperma*; see *C. ficifolia*.
—*Melo v. Dudaim*. **CUCU-4D. 35¢**
Fruit size of Orange, marbled; highly
perfumed.

CUCURBITA. (kew-KERB-it-uh)
Cucurbitaceae. Running plants of which
the Squash, Pumpkin and Gourd are mem-
bers; some are ornamental as well as edible.

—*ficifolia*. **CUCB-3. 25¢**

Malabar Gourd. Ornamental; perennial
in warm regions; 8-12 ft; HHA. Oz. 80¢.

—*Pepo*. **CUCB-12. 35¢**

Annual summer or autumn Pumpkin.
The small Gourds belong here; see under
Gourds.

CYRTOMIUM. (ser-TOH-mee-um)
Polypodiaceae. HH or GH Ferns; grown
mainly in the GH; easy.

—*falcatum v. Rochefordii*. **CYRT-4R. 50¢**

CUNNINGHAMIA. (kun-ning-HAM-ee-uh)
Taxodiaceae. China Fir. (Belis). Two ever-
green trees allied to Cryptomeria. Have
stiff sharp pointed flattened lvs. Hardy in
the far South.

—*lauceolata*. **CUNN-2. 50¢**

CUNONIA. (kew-NON-ee-ah)
Cunoniaceae. Trees and shrubs from the
Southern Hemisphere. Ornamental and suit-
able for far South.

—*capensis*. **CUNO-2. 35¢**
Handsome S. Af. tree; fls white like the
bottle-brushes, above the foliage.

CUPHEA. (KEU-fe-ah)
Lathraceae. Tropical plants, mostly GH
subjects in the N but pretty annuals for out-
doors in the S; nice for boxes and baskets.

—*Hybrids, Butte-fly*. **CUP-3B. 25¢**

Very pretty and in many colors; 2 ft; TA.

—*Firefly*. **CUP-3F. 25¢**

Deep red. ½ Oz. \$2.00.

—*heterophylla*. **CUP-4. 35¢**

Purplish or reddish fls in racemes; 2 ft;

Mexico; (parsonia).

—*ignea*. **CUP-5. 25¢**

(C. platycentra) Cigar-Flower. Bedding;

red and white fls; 1 ft; TA space 9"; very

showy in pots. ½ Oz. \$4.00.

—*lanceolata*. **CUP-7. 25¢**

Purple fls; Mexico; 4 ft; TA; space 18";

—*lanceolata var. minima*, **Vermillion**. **CUP-8V. 25¢**

Brilliant vermilion; 1 ft; TA; space 9"

—*Mixed Cupheas*. **CUP-X. 20¢**

CUPRESSUS. (kew-PRESS-us)

Cypress. Cupressaceae. Ev. gr. trs. and
shr; not hardy in N; the true Cypress.

—*arizonica*. **CUPA-1. 30¢**

Oz. 50¢; lb. \$3.00.

—*arizonica glauca*. **CUPA-1G. 30¢**

Tree to 40 ft; silvery gray when young;
probably (VIII); sow spring or fall; strat-
ify in moist sand 2 months at 40 F.

—*Duclouxiana*. **CUPR-6. 30¢**

Bhutan C. Tree to 150 ft; drooping
branchlets; Himalayas; formerly classified
as *C. torulosa*. Oz. 50¢; lb. \$3.00.

—*lusitanica*. **CUPR-20. 35¢**

Portuguese or Mexican C. Tree to 50 ft.

Oz. 50¢; lb. \$3.00.

—*sempervirens*. **CUPR-29. 35¢**

Italian C. Tr to 80 ft; very ornamental;

(VIII). **CUPR-17H. 25¢**

Oz. 50¢; lb. \$1.00.

CURCULIGO. (kur-KEW-lig-oh)

Amarylidiaceae. Stemless Amaryllis-like
plants with short thick root stock; popular
GH foliage plants or outdoors in the South;
requires high temperature; plenty of moist-
ure and a rich soil.

—*capitata*. **CURC-1. 30¢**

Dark green leaves 3 ft. long; palm-like;
fine for pots.

CURCUMA. (kar-KEU-mah)

Zingiberiaceae. Robust per. with tuber-
ous roots; warm GH during winter or out-
side in far South.

—*Zedoaria*. **CURU-7. 75¢**

Seed very scarce. Dwarf rhizomatous
plant with Ginger-like roots; huge spikes
of beautiful fls bracts of pink, white and
rosy fls, 10 ft high.

CURTONUS. (kur-TON-us)

Iridaceae. Allied to Antholyza, Chasman-
the and Anapalina. Only one known species;
grow as you would Gladiolus

—*paniculatus*. **CURT-1. 30¢**

Leaves 2 ft. long, 3" wide; red-yellow

fls; 4 ft; TP.

CYANANTHUS. (cy-NAN-thus)

Campanulaceae. Small Himalayan plants,
nice for the RG. They are related to Cod-
onopsis but not climbing, flowering in late
summer; hold over first winter in pots; needs
good growth first year; a lovely race.

—*lobatus*. **CYAN-4. 30¢**

One of the best species; large blue fls; 6";

HP.

—*micropophyllus*. **CYAN-7. 50¢**

(C. integer) Gay blue starry fls on trail-
ing stems; 2"; autumn flowering; HP.

CYCAS. (SYE-kass)

Cycadaceae. Greenhouse plants for speci-
mens or out doors in the South. Cover seed
with sand and germinate in greenhouse and
pot off as they germinate; 70 degrees Far.
Called Palms but they are not.

—*revoluta*. **CYCA-7. \$4.00**

Sago-Palm. 10 ft; Japan. 10 fruits \$4.00;

shipped as received.

CYATHEA. (sy-ATH-ee-uh)

Cyatheaceae. Tree Ferns with trunks 50 ft
high; tropical; good for far S or GH.

—*canadensis*. **CYAT-2. 75¢**

—*dealbata*. **CYAT-3. \$1.00**

Shady Treefern on account of its milk-

white under surface; to 30 ft; fronds 12 ft

long and 4 ft broad; popular; N. Z.

—**medullaris.** **CYAT-8. \$1.00.**
Sago-Fern. A beautiful large tree fern;
to 50 ft; N. Z.

CYCLAMEN

Primulaceae. Low GH plants, some are hardy outdoors in the N. The florist Cyclamen is very popular. (SIK-lah-mum).

Florists growing Cyclamen realize the value of good seed; even cheap seed is expensive, when you figure on around 50-80 seeds from a large plant; it is easy for the seed grower to sell his brilliant plants and then save seed from the left-overs: the seed costs a little less but there is a big difference in quality. New Crop seed comes in late spring. Order early.

CYCLAMEN INDICUM: Popular pot plants for the GH. Sow in Sept.; requires 15-18 months for good 6"-pot plants.

Seed should be sown during August to October, placing seeds 1" apart in flats of light sandy soil to which some leaf mould has been added. Seed is variable in germination, so when seeds are 1" apart, the seedlings can be lifted out without disturbing nearby ungerminated seed; seedlings can be left in seed flat till spring. The main point in their culture is to keep them growing when young.

—**SWEET SCENTED.** **CYCL-9SC. 75¢**

A fragrant variety with salmon-pink fls; fls somewhat smaller; plants have a good compact habit; the only scented Cyclamen.

—**Baardée's Wonder.** **CYCL-9B. 50¢**

Fine salmon with white border.

—**Bonfire.** **CYCL-9F. 50¢**

Brilliant salmon color.

—**Glory of Wandsbeck.** **CYCL-9G. 50¢**

One of the best dark crimson.

—**Glory of Marienthal.** **CYCL-9M. 50¢**

Soft rose with a bright carmine eye.

—**Rose of Zehlendorf.** **CYCL-9Z. 50¢**

A showy bright rose color.

—**Salmon-Scarlet.** **CYCL-9S. 50¢**

An improved America.

—**White with Crimson Eye.** **CYCL-9E. 50¢**

—**New Ruffled, Mixed.** **CYCL-9IX. 50¢**

Ruffled petals; try a few in your list.

—**Rococo, Mixed Colors.** **CYCL-9CX. 50¢**

An extra large flowering strain.

—**Cyclamen Blend.** **CYCL-9X. 50¢**

A hand-made blend for greenhouse use

P.P.I.C.E: Any of Above, \$12.00 per 1,000 seeds; 100 seeds (not less than 25 of a kind) \$1.50. Orders received before July 1st—10% more seed will be added.

CYCLAMEN SPECIES:

Seed is best if sown as soon as possible after harvest; if not ordered otherwise, orders on the following received after Jan. will be so held.

—**cilicium.** **CYCL-3. 50¢**

Large pale rose fls purple in throat; seed available after new crop; limited.

—**colum.** **CYCL-4. 50¢**

Purple fls with spotted throat; seed will be available after new crop; limited.

—**europacum.** **CYCL-6. 50¢**

Bright red fls; fragrant 4-5"; HP: IV.

—**neapolitum album.** **CYCL-12. 50¢**

Hardy white Cyclamen; autumn flowering; 4"; HP: IV.

—**Tregye Strain.** **CYCL-12T. 50¢**

Seed available after new crop; limited.

—**pseud-ibericum.** **CYCL-14. 50¢**

Seed available only from new crop.

CYCLOPHORUS. (sy-KLOFF-or-us)

Felt Fern. Polypodiaceae. Tropical ferns; Tongue or Japanese Fern. Fronds about Malayan; similar to Polypodium. 15" long; Japan.

—**Lingria.** **CYCF-3. 50¢**

This has been reclassified to Pyrrosia.

CYDONIA. (cy-DON-ee-ah)

Rosaceae. Quince. A small tree to 20 ft; the Japanese Q. see under Chaenomeles.

—**oblonga.** **CYDO-1. 35¢**

(vulgaris) 20 ft; white or pale pink fls, 2" ac. **Oz. 60¢.**

—**semperflorens.** **CYDO-3. 35¢**

CYCLANDROPHYLLUM.

Aizoaceae. A very succulent S. Af. genus, formerly in Mesembryanthemum.

—**caamiforme.** **CYLI-4. 50¢**

Pale pink fls with yellowish white at base, 3" across.

CYMBALARIA. (sim-bah-LAY-re-ah)

Scrophulariaceae. Creeping herb perennials; very much like Linaria. They are tender and should be grown as annuals in the N; nice basket plants for shady places.

—**mura.is.** **CYMB. 3. 25¢**

Kenilworth Ivy. Lilac-blue fls; a good basket plant for shady places.

CYNARA. (SIN-er-uh)

Compositae. Course per. and bien. plants native of Medit. regions.

—**Cardunculus.** **CYNA-1. 25**

Cardoon. Cultivated for its edible root; start early; 6 ft. **Oz. 50¢; lb. \$3.50.**

—**Spineless.** **CYNA-1S. 25¢**

Oz. 40¢.

—**Bolognese.** **CYNA-1B. 25¢**

CYNOGLOSSUM. (sin-oh-GLOS-um)

Boraginaceae. Hound's Tongue. Annual, biennial and perennial plants grown for cut-flowers.

—**amabile.** **CYNO-1. 20¢**

Deep blue; 2 ft; grow as HA; space 12". **Oz. 50¢.**

—**Blue Cloud.** **CYNO-1BC. 25¢**

A delicate blue and white; a dwarf Firmament habit. **1/2 Oz. \$1.50.**

—**White Cloud.** **CYNO-1WC. 25¢**

—**Pink.** **CYNO-1P. 25¢**

—**Firmament.** **CYNO-1F. 25¢**

A compact blue var; 15"; HA. **1/2 Oz. 40¢.**

—**caelestinum.** **CYNO-3. 20¢**

Properly listed as Adolocaryum caelestinum. Blue fls; 2 ft; especially grown for bee food. **Oz. 50¢; lb. \$2.00.**

—**livifolium.** see *Omphalodes livifolia.*

—**zeylanicum.** **CYNO9.. 5¢**

(C. furcatum). 3 ft; HA; blue fls; India.

—**Cynoglossum Mixed.** **CYNO-X. 20¢**

CYPELLA. (sy-PEL-ahh)

Iridaceae Bulbous plants from S. Amer; basal lvs; fls orange, yellow or blue; much like Iris and Moraea.

—**Herbertii.** **CYPL-2. 40¢**

To 3 ft; yellow fls; Brazil.

CYPERUS. (sy-PEE-rus)

Cyperaceae. Galingale. An. but mostly perennials; leaves grass-like; fls in spikelets. They are grown in ponds or as pot plants.

—**alternifolius.** **CYPE-2. 30¢**

Umbrella Plant. For water edge; 3 ft; TP. ¼ Oz. 50¢; Oz. \$1.50.

—*nana compacta*. **CYPE-2N. 40¢**

Dwarf compact strain for pots. 1/8 oz. 65¢

—*congestus*. **CYPE-3. 35¢**

(Paramatta). Good in dry places.

—*elegans*. **CYPE-5. 30¢**

Fine lvs; very pretty. Oz. \$1.50.

—*natalensis*. **CYPE-7. 30¢**

To 2 ft; spikelets on rays 7" long; Natal.

Oz. 60¢. **CYPE-9. 40¢**

—*Papyrus*. **CYPE-10. 40¢**

To 8 ft; paper plant of Egyptians; grown

in ponds.

—*parametta*. **CYPE-12. 35¢**

For dry places.

—*rotandus*.

CYPHOMANDRA. (sy-foh-MAND-ruh)

Solanaceae. S. Am. tropical shrubs and

trees with flowers in racemes or cymes fol-

lowed by many seeded berries. Grow same

as Egg Plant; hardy only in far South.

—*befacea*. **CYPH-1. 40¢**

Tree Tomato Sh to 10 ft; lvs 1 ft long;

pinkish fls, ½" ac; fragrant; fr egg-shaped;

dull red, 3" long; tomato-like flavor. ½ Oz.

\$2.00.

CYPRIPEDIUM

Orchidaceae. Lady Slipper. Terrestrial

orchids, hardy in zone (III); very pretty;

try sowing seeds on well rotted wood in a

shady place. (sip-ri-PEE-di-um).

—*acaule*. **CYPR-1. 60¢**

Pink Lady Slipper. Beautiful in shady

spots; May-June; HP; (III); try sowing

seed on well rotted hard wood; pH 4-5.

pH 6-8.

—*Calceolus*. **CYPR-4. 50¢**

Yellow Eurasian Lady Slipper. Styria.

—*pubescens*. **CYPR-4P. 50¢**

Larger and more hairy; fls larger; (III).

—*Reginae*. **CYPR-18. 50¢**

Showy Lady Slipper. Fls 3" ac; white,

lips striped rose; pH 6-8; (III); HP.

PLANTS: We can supply plants in Spring

or Fall; see plant list.

CYPTOSTEGIA.

Asclepiadaceae. Rubber Vine. Three woody

tropical Af. vines; large funnel-shaped fls;

can be grown under glass.

—*grandiflora*. **CYTG-2. 35¢**

Very attractive tree or bush; funnel-

shaped reddish purple fls that turn pale

with age.

CYRTOMIUM.

(ser-TOH-mee-um)

Polypodiaceae. Easy ferns for the GH;

half hardy.

—*acrostichum v. Rochefordii*. **CYRT-4P. 50¢**

Holly Fern. Stiff, dark green fern; 2 ft;

GH.

CYSTOPTERIS.

(sis-TOP-ter-is)

Bladder Fern.

—*bulbifera*. **CYST-2. 50¢**

PLANTS: 50¢ each; 3 for \$1.40.

CYTISUS.

(SIT-i-sus)

Leguminosae. Broom. Shrubs very sim-

ilar to Genista. They are not hardy in the

North but can be forced in the GH in a cool

place; many are very showy. They thrive

in full but not too rich soil; the species best

grown from seed sown during Feb; grow

seedlings on in pots till ready for permanent

location.

—*canariensis*. **CYTS-9. 50¢**

—*decumbens*.

Prostrate, yellow fls; May-June; 8"; HP.

—*hirsutus v. demissus*. **CYTS-16. 35¢**

Very rare; best of all the really dwarf,

prostrate rockery Brooms; trailing stems

and immense brown and deep orange-yel-

ow fls in summer. sun and poor soil; easy.

good on sea coast; hedge plant; 10 ft; (X);

New Zealand.

—*purpureus*. **CYTS-44. 40¢**

White, pink or purplish fls; 2 ft.

—*scoparius*. **CYTS-48. 40¢**

(Spartium scoparium) Oz. 50¢; 1L. \$4.00.

CYSTOPTERIS.

(Bladder Fern)

—*bulbifera*. **CYST-2. 50¢**

Berry Bladderfern. Tiny bulblets along

underside of fronds; part shade; good RG;

1-2 ft.

PLANTS: 50¢ each; 3 for \$1.40. Prepaid.

DABOECIA.

(dab-oh-EESH-ee-uh)

Irish Heath. Ericaceae. One evergreen

Heath-like shrub, suitable for the RG; it re-

quires winter protection in the N; thrives in

a peaty acid soil; sow in peaty soil in Feb;

germinates freely.

—*cantabrica*. **DAB-1A. 50¢**

Irish Heather. White form; 2 ft; HSH; V.

—*hybrid*. **DAB-1H. 25¢**

Pink to rose; 6-12 in; long bloomer; HP.

DAHLBORG DAISY: see *Thymophylla*.

DAHLIA

Compositae. Tender perennials; the grow-

ing of them from seed is an interesting un-

dertaking and many new forms and varieties

can be developed; start seed indoor for an

early start. or seed can be planted out doors

so that seedlings will not be killed by frosts.

In the dwarf types, especially, flowers can

be produced from seeds as soon as from

the tubers or cuttings and with the added

advantage of more robust growth. Do not

throw weak seedlings away as they often

produce the best flowers; start seeds in-

doors in Feb. or March for early flowers.

—*Coltiness Hybrids*. **DAHL-2. 25¢**

Dwarf; single fls. blooming in 4 months

from seed. Oz. 80¢.

Large semi-double fls; breeds true; 1½ ft.

—*Scarlet Gem*. **DAHL-2S. 25¢**

Oz. 90¢.

—*White*. **DAHL-2W. 25¢**

Oz. \$1.00.

—*Yellow Gem*. **DAHL-2Y. 25¢**

Breeds true from seed; 15 inches.

—*Collette*. **DAHL-3. 25¢**

Large semi-double flowers

—*Decorative Giants*. **DAHL-4. 75¢**

Evolution strain from newest varieties.

Oz. \$4.00.

—*Gem*. **DAHL-4G. 25¢**

Large flowering hybrids in dwarf form.

—*Fall Festival*. **DAHL-2FF. 40¢**

This is a new strain from California.

—*Giant Hornvold Hyb.* **DAHL-2G. 40¢**

Immense double and semi-double fls;

this comes true from seed.

—*Mignon*. **DAHL-6. 25¢**

Very large single fls in bright colors; 18"

Oz. 75¢.

—*Unwin's Dwarf Hybrids*. **DAHL-7. 25¢**

The best bedding Dahlia; 20" high, pro-

ducing an abundance of double and semi-

double fls; excellent from seed sown early

in spring. Oz. 80¢.

- Queen of Moorland.** DAHL-9. 25¢
Dwarf; black lvs; double; Feb. sown
seed blooms in July; 18".
- Zula Hybrids.** DAHL-8. 25¢
Dark leaf strain double and semi-double
hybrids in red, orange, yellow and lilac
shades. 1/4 Oz. 80¢.
- Single Varieties Mixed.** DAHL-8X. 25¢
Oz. 50¢.
- Mixed Dahlias.** DAHL-X. 25¢

DANAE. (DAY-nuh-ee)
Liliaceae. Native of S. W. Asia.

- racemosa.** DANA-1. 35¢
Alexander Laurel. Small white fls in ter-
minal racemes; 3 ft; red berries; native of
S. W. Asia. d. b. Oz. 50¢; lb. \$3.50.

DANTHONIA.

- seacea.** DANT-10. 25¢
Mulca Wallaby Grass; Australia.

DAPHNE.

- (DAFF-nee)
Thymelaeaceae. Small decid. or ev. shs es-
pecially valuable for their fragrant fls; they
thrive in a well drained sandy loam, well
supplied with leaf mould. They are not all
hardy in the N and some are grown in the
G. treat as annual; 4 ft; HP; very pretty
shrub with its - small-lateral leaflets; sen-
sitive to sound.

- glandulosa.** DAPH-12. 50¢
—**Laureola.** DAPH-14. 25¢
—**Me-reureum.** DAPH-16. 50¢
Lilac-purple fls; scarlet fr; 4 ft; seed can
be sown in July or August; peaty soil.
Oz. 50¢; lb. \$3.50.

- alba.** DAPH-16A. 50¢
White flowered form and yellow fruits.
- rubra.** DAPH-16 B. 30¢
Reddish purple flowers.
- Miyabeana.** DAPH-17. 30¢
From Japan. Oz. 65¢.
- oleoides.** DAPH-20. 30¢
White or pale lilac fls; 3 ft; ev; TSH.
- Mixed.** DAPH-X. 25¢

DAPHNIPHYLLUM. (daf-nif-FILL-um)

- Euphorbiaceae. Ev. trs. and shs; leathery
lvs.

- ac-opodum.** DAPP-8. 40¢
20 ft; racemes 4" long; a nice tr for the
S. standing several degrees of frost. Oz.
75¢; lb. \$4.00.

- humile.** DAPP-4. 40¢
5 ft; dark blue fr; Japan. Oz. 70¢;
lb. \$4.00.

- vid-pes.** DAPP-12. 40¢
Oz. 75¢; lb. \$4.50.

DARWINIA.

- Myrtaceae. Ev. sh. of Australia and plant-
ed in the South.

- terminal heads.** DARW-4. 40¢

DASYLIRION.

- (dass-il-IR-ee-on)
Liliaceae. Sotol. Desert plants of N. Am
and Mexico; very attractive in bloom; dense
panicked racemes of small white fls; makes
a good tub plant.

- acophyllum.** DASY-2. 50¢
18 ft; (X). 100 seeds \$1.60; 1,000, \$4.50

- acile.** DASY-5. 50¢
100 seeds \$1.80; 1,000, \$5.00.

- longifolium:** see *Nolina longifolia*.

DATURA

Solanaceae. Annuals and perennials found
in warm regions. Many are ornamental due
to their large trumpet-shaped fls; all have
narcotic effects and poisonous if eaten in
quantity. Species identified as to (1) fls pend-
ulous, (2) erect. In (1.) are arborea, sang-
uinea, suaveolens and in (2) Metel, mete-
loides, innoxia, Stramonium and ferox. In
N grow as tender annuals. (dat-TEU-rah).

- arbo-rea.** DATU-1. 30¢
Angel's Trumpet. Small tr; large white
fls with musk-like odor.

- fastuosa fl. pl.** DATU-8. 25¢
Double flowers mixed. Oz. 80¢.

- ferox.** DATU-9. 25¢
Light blue flowers.

- innoxia.** DATU-10. 25¢

- Metel.** DATU-11. 25¢

- Resembles 18 in habit; 5 ft; TA; mature
fruits never erect.

- alba plena.** DATU-11A. 30¢

- Large white fls. Oz. 50¢.

- aurea plena.** DATU-11Y. 30¢

- Yellow fls. Oz. 50¢.

- fastuosa.** DATU-11F. 35¢

- Purple flowers.

- meteloides.** DATU-13. 40¢

- (Wrightii) Per. grown as TA; 13 ft; fls

- erect, 8" long; white tinged rose or violet.

- meteloides.** DATU-14. 40¢

- HH4; Mexico; 5 ft; erect, white fls, 4"

- long

- Stramonium.** DATU-18. 25¢

- Jimson or Jamestown Weed. The spec-
ies generally used for its leaves for med-
ical uses; lavender-white trumpet fls, 4"

- long; 5 ft; TA.

- Trumpet-in-Trumpet.** DATU-30. 25¢

- Chloranthe Golden Queen. Ruffled dou-
ble yellow fls; HA. Oz. \$1.50.

- Mixed Datura.** DATU-X. 25¢

DAURENTONIA. (dau-ben-THON-ee-ah)

- Shrubs and trees with pinnate leaves and
yellow or rose fls in racemes followed by 4-
winged or -angular pods; not hardy in the N.

- avena.** DAUR-3. 30¢

- tipetii.** DAUR-4. 30¢

- Orange-red with scarlet standards; in

- drooping racemes; 6 ft; HHSH.

DAVALIA. (dav-VAL-lee-uh)

- Polynodiaceae. Small tropical ferns; grown
in hanging baskets or fern balls.

- Squirrel-foot Fern.** DAVA-3. 50¢

DAVIESA.

- Leguminosae. Showy Australian shs; have
hard seed coats; hot water and leave 3-4
days; when some begin to sprout plant im-
mediately.

- acophylla.** DAVI-3. 20¢

- Memorial Butter Pea. Yellow pea-

- shaped fls covering the 2-5 ft. shrub; Aust.

DECAISNEA. (dek-KAY-nee-uh)

- Cardinalis. Asian shs; flowers in
panicked racemes followed by ornamental
fruits.

- Farresi.** DECA-4. 50¢

- Shrub; 16 ft; greenish fls; China; (V).

- seed slow to germinate.

DECODON. (DEK-oh-den)

- Found in swamps and about ponds; Me
to Fla.

SYMBOLS: c.s.—clean seed; d h—dried
berries; RG—suitable for the rockery; GY
those that make good plants in greenhouse.

—verticillatus.

White Willow, Swamp Loosestrife. Rose-purple fls 1" ac; 8 ft; July-Sept; HP.

DELONIX.

(de-LON-ix)

Trees with showy orange and scarlet fls in racemes; grown only in the far S. They have been classed, incorrectly, as Poinciana and Caesalpinia. D. regia is the commonly grown Royal Poinciana of the far South.

—regia.

Royal Poinciana; Peacock Flower; red fls; very showy; (IX); 400 seeds per lb. Oz. 75¢; lb. \$6.00.

DESMODIUM.

(des-MOH-de-um)

Tick Trefoil. Leguminosae. Plants, often woody at the base, grown in the border or wild garden; fls in racemes.

—rot. um.

(gyrans). Telegraph Plant. Grown in the

DESM-12. 30¢

GH; treat as an annual; 4 ft; a very pretty shrub with its - small lateral leaflets that are sensitive to the touch; HP.

DEUTZIA.

(DEWT-see-uh)

Saxifragaceae. Himalayan shs; attractive and showy; sow seeds in spring; they also are good pot plants for forcing in a cold GH, 45 degrees, F; sow seed in pots or pans, Feb.

—gracilis.

6 ft sh; pure white fls. Oz. 60¢; lb. \$4.50.

—hypog. aucta.

Sh to 6 ft; white fls in many-fl corymbs; China. Oz. 90¢.

—scabra.

(D. crenata) c. s. Oz. 50¢; lb. \$3.00

—Sieboldiana.

Sh to 6 ft; fls 1½" ac, white, in loose panicles, Japan. Oz. 90¢; lb. \$6.00.

—Vilmoriniae.

White fls, 1" ac; 6 ft; China. Oz. \$1.90.

DEUT-38. 50¢**DEUT-42. 40¢****DEUT-45. 50¢****DELPHINIUMS**

Larkspur. (del-FIN-ee-um). Ranunculaceae. A large number are very showy fls for the border. The large flowering garden strains are usually started in August or early spring just so they get rooted by freezing weather. Keep the seed flat in a shady place till the seedlings appear. Fresh seed is available in late August.

PLEASE NOTE: All Delphinium seed received from us should be planted at once or placed in the refrigerator till used.

PACIFIC GIANT STRAIN:

These are the most popular of all the Delphiniums; they are about 65% mildew resistant and 100% double.

—Black Knight.

Fls. violet with black

DELP-1K. 50¢**—Blue Bird.**

True blue with white bee.

DELP-1B. 50¢**—Blue Jay.**

Clear medium to dark blue with contrasting bee.

DELP-1J. 50¢**—Cameliard.**

Clear lavender self with white bee; 3" ac.

DELP-1C. 50¢**SE LIES****DELP-1T. 90¢.**

Although this new group of novel shades was introduced in 1950, the seed produced this year is far ahead of the original production. Color variations extend from pale blush through all shades of lilac-pink to deep raspberry-rose with large fawn and black bees for contrast. Seed offered is grown for me by the originator—Vetterle and Reimelt.

—CROSS POLLINATED SEED: Pkt. \$3.00.

(Over 400 seeds).

½ Pkt. 2(0 0seeds)

\$1.50.

- Galahad.** **DELP-1W.** 50¢
Giant white fls with white bee.
 - Guinevere.** **DELP-1G.** 50¢
Clear pink-lavender self with white bee.
 - King Arthur.** **DELP-1A.** 50¢
Rich royal purple; large white bee.
 - Lanceolate.** **DELP-1L.** 50¢
Clear lilac self with white bee; a rare Delphinium color.
 - Percival.** **DELP-1P.** 50¢
Large glistening white; strong contrasting bee.
 - Round Table.** **DELP-1R.** 50¢
All the colors plus many beautiful hybrids.
 - Summer Skies.** **DELP-1S.** 50¢
Light sky blue with white bee.
 - Series Blend.** **DELP-1X.** 50¢
Hand made blend of just the above series.
- PRICE:** Any of the above: ½ Oz. \$2.60, Oz. \$5.00; lb. \$50.00.

BELLADONNA: This class is not as tall nor as large flowered as the Pacific Giants but they are easier to grow and will stand up better and require less care; they are also much better for the South; for GH growing sow January 1st.

- True Type.** **DELP-2B.** 25¢
Clear blue; nice strong plants. Oz. \$2.00
- Blue Grotto.** **DELP-2G.** 25¢
Deep indigo-blue; 3 ft; excellent cut.
- Cliveden Beauty.** **DELP-2C.** 25¢
Lovely turquoise-blue; 3 ft; excellent cut. Oz. \$1.20.
- Improved Strain.** **DELP-2V.** 25¢
A deep blue; 3 ft. Oz. \$3.00.
- bellamosum.** **DELP-2M.** 25¢
Rich deep blue with white bee; 2" fls. Oz. \$2.00.
- Mixed.** **DELP-2X.** 25¢
Any of above: Oz. \$1.60; lb. \$12.00.

- Hollyhock Strain.** **DELP-2H.** 35¢
Has very long spikes, densely covered with flowers; comes in light colors, mixed. Oz. \$2.25; lb. \$24.00.
- Blackmore and Landon.** **DELP-2BL.** 60¢
A very large flowered strain of hybrids in exquisite colors; the English version of the Pacific Giants. Oz. 2.00; lb. \$23.00.

CHINENSIS: While these are perennial they are best treated as annuals from early started seed. They are robust growers and rarely need staking; fine cut.

- Azure Fairy.** **DELP-3A.** 25¢
Dwarf azure-blue; 1 ft. Oz. 90¢.
 - Blue Mirror.** **DELP-3M.** 25¢
A new type; light blue, without spurs and fls facing upwards. Oz. \$1.50.
 - White Mirror.** **DELP-3MW.** 30¢
A 1956 introduction; pure white variety, without spurs; large fls. ½ Oz. \$1.40.
 - Blue Butterfly.** **DELP-3B.** 25¢
Wild Larkspur. HA; 3 ft; spikes light white; ultramarine-blue; 1 ft. Oz. 90¢.
 - White Butterfly.** **DELP-3V.** 25¢
Blossoms first year from seed; white; bedding or border. Oz. 90¢.
 - Cambridge Blue.** **DELP-3C.** 25¢
Rich belladonna blue; 15". Oz. \$1.00.
 - Tall Blue.** **DELP-3T.** 25¢
Grows 24-30 inches; good cut. Oz. 90¢.
 - Tall White.** **DELP-3W.** 25¢
Grows 2-3 ft; bedding or cut.
 - Dwarf Mixed.** **DELP-3DX.** 25¢
 - Tall Mixed.** **DELP-3TX.** 25¢
- Any of Above: Oz. \$1.60; lb. \$12.00.

DELPHINIUM SPECIES:

- macr.** **DELP-9.** 35¢
Erect western sp; 20 in; blue; dies done during the summer months; HP.
- Buileya.** **DELP-12.** 40¢
Deep blue fls; 4-5 ft; China.
- carolinia.** **DELP-16.** 40¢
The Scarlet Delp. Erect; 2-3 ft; bright scarlet with yellow petals. Oz. \$2.00.
- cashmerianum.** **DELP-18.** 40¢
blue; fls early sp; rich moist soil. ½ oz. 50¢
- **Dwarf; blue; 10"; RG; Himalayas; HP; best germination had with Feb. sown seed.** **DELP-20.** 50¢
- decorum.** **DELP-32.** 40¢



GIANT DELPHINIUMS

- A deep purple species; 4-6"; RG.
- incaum.** **DELP-52.** 40¢
- macrocentron.** **DELP-58.** 50¢
Flowers hanging; blue or yellow; 5 ft; South Rhodesia.
- Menziesii.** **DELP-59.** 50¢
Deep blue; western U. S. sp; 4-5 ft; HP; best sown in Feb.
- nudicaule, Red Cardinal.** **DELP-62R.** 35¢
Rich scarlet flowers; long spurs, 1 ft; RG; Oz. \$3.00.
- Chamois.** **DELP-62C.** 35¢
- Orange Queen.** **DELP-62Q.** 40¢
Bright orange flowers; Oz. \$4.00.
- Scarlet.** **DELP-62S.** 35¢
- oriental.** **DELP-65.** 40¢
Violet-blue; HA.
- pauciflorum.** **DELP-69.** 35¢
Violet-blue fls; 3 ft; HA.
- Parryi.** **DELP-71.** 40¢
Deep blue; S. Calif; 3 ft.
- sulphureum.** **DELP-95.** 35¢
- vestitum.** **DELP-102.** 50¢
Himalayan Larkspur. Profusion of pale blue flowers.
- Weybyi.** **DELP-103.** 50¢
Blue; 2 ft; fls 2" ac; Abyssina.
- yunnanense.** **DELP-104.** 75¢
True species; deep blue, long racemes; China; 3 ft; HP.
- Zalil.** **DELP-105.** 60¢
(D. sulphureum). Primrose-yellow fls; 3 ft; HP; best sown in the fall to germinate in the spring.

DIANELLA.

(dye-an-NELLuh)

Liliaceae. Fibrous rooted perennials and grown outdoors in the S or in a cool GH; sow seeds in the spring, over heat. ,

—intermedia.

DIAL-4. 40¢

Greenish or purplish white fls in panicles; 2 ft long; has creeping root stock; (X); N. Z.

—revo. uia.

DIAL-6. 40¢

Flax Lily. Thick clumps of Rush-like lvs; small blue fls on stalks well above fol.

—tasmanica.

DIAL-8. 25¢

Grass-like ornamental foliage; large peacock-blue br; very attractive; nice in tubs; (VIII) 5 ft; Tasmania.

DIANTHUS

(die-ANTH-us) Pinks, Carnations, Sweet William. Caryophyllaceae. A very large genus with many types and varieties. They are rather hardy and range in height from very low plants to 3 ft.; they have one common requirement—never cover the tops with a winter mulch. Shearing plants in the spring tends to keep them in shape; start the annual kinds as early as possible in the spring but the perennials can be started any time up to August; germ. 10-14 days.

D. BARBATUS: Sweet Williams. While they are perennial they are best treated as biennials; 1-2 ft; makes cut-flowers late in the season; sow seed in April or May, thinly and prick out early; they can be started also in July or August.

—auricula-eyed, Mixed. **DIAN-17AX. 25¢**
All with large white eye.

—Dunnettii. **DIAN-17D. 25¢**
Blood-red fls; best of this type.

—Har. equin. **DIAN-17H. 25¢**
White, rose and red shades on the same flower head; pretty.

—Holborn's Glory. **DIAN-17B. 25¢**
Very large fls; white and white margin.

—Hunt's Perfection. **DIAN-17P. 25¢**
Auricula-eyed fls; fine.

—Indian Carpet. **DIAN-17K. 30¢**
Dwarf single in bright colors; mixed.
½ Oz. 80¢.

—Johnson's Diadem. **DIAN-17J. 25¢**
Brilliant dark scarlet with large white eye.

—Newport Pink. **DIAN-17N. 25¢**
A beautiful single salmon-rose.

—nigrescens. **DIAN-17G. 25¢**
Dark red with dark lvs. ½ Oz. 75¢.

—Pink Beauty. **DIAN-17R. 25¢**
Charming strain in shades of salmon-pink

—Scarlet Beauty. **DIAN-17S. 25¢**
Brilliant scarlet.

—Single Dark Crimson. **DIAN-17C. 25¢**

—White Beauty. **DIAN-17W. 25¢**

—Dw. Comp. Single Mix'd. **DIAN-17SX. 25¢**

—Wee Willie. **DIAN-17WW. 30¢**

—Double Mixed. **DIAN-17DX. 25¢**

Any of above varieties except as noted: Oz. 60¢; lb. \$4.00.

D. CARYOPHYLLUS: The various strains and types of Carnations come under this species. Most are not real hardy in the (IV) zone but can be grown never the less in many gardens with a little protection. Space plants 1 ft. apart and get them started well before winter.

—Giant Perpetual. **DIAN-12P. 35¢**
Clove Pinks. Large flowers in several colors; clove scented; HP.

CHABAUB CARNATIONS:

Everblooming Carnations; sow seed indoors during Jan.-Feb., if possible. The most popular; my seed is grown in France where the very best Carnations are produced; HHP.

—Cardinal Red. **DIAN-12C. 30¢**
Beautiful red shades.

—Deep rose. **DIAN-12Z. 30¢**

—Double Rose. **DIAN-12GZ. 30¢**
An extra double strain.

—Jeanne Diona. **DIAN-12J. 30¢**
A pretty pure white variety.

—Evince. ant. **DIAN-12T. 30¢**
Bright scarlet; 90% double.

—Giants of Nice. **DIAN-12G. 30¢**
Robust giants; 90% double.

—Legion of Honor. **DIAN-12L. 30¢**
Salmon-rose.

—Marie Chabaud. **DIAN-12Y. 30¢**
Pure yellow.

—Nero. **DIAN-12N. 30¢**
Blood-red flowers.

—Rose Queen. **DIAN-12Q. 30¢**
One of the best rose-colored varieties.

—Ruby. **DIAN-12R. 30¢**
Dark red.

—Simon's Triumph. **DIAN-12SM. 30¢**
A beautiful hardy double Carnation in all the best colors; a superior strain. Oz.

\$2.50.

—Enfant de Nice, Mixed. **DIAN-12E. 30¢**
75% true; 90% double; beautiful strain.

¼ Oz. \$4.00. **DIAN-12SE. 30¢**

—Striped. **Oz. \$4.00.**

Flowers striped red. ¼ Oz. \$4.00. **DIAN-12X. 30¢**

—Mixed. **DIAN-12X. 30¢**
½ Oz. \$2.00; Any of the varieties above:

½ Oz. \$2.25.

—Teicher's Strain. **DIAN-12T. 40¢**
Hardy Grenadin Carnations. Extra large flowered, mixed; fine color range; strong stems. Oz. \$5.00.

—Carnation Blend. **DIAN-12X. 30¢**
A blend of all types of Carnations.

GRENADIN CARNATIONS:

These are a more hardy type Carnation; best for the border; 15 in. high; excellent.

—King of the Blacks. **DIAN-12GK. 30¢**
Dark velvety brown.

—Rosy Morn. **DIAN-12GR. 40¢**
Pretty rose.

—Scarlet Morn. **DIAN-12GS. 30¢**
Best red variety.

—White Queen. **DIAN-12GW. 35¢**

—Yellow Queen. **DIAN-12GY. 30¢**

—Striped. **DIAN-12GD. 50¢**
Red stripes.

—Dwarf Grenadin, Mix. **DIAN-12GDX. 25¢**

—Blend. **DIAN-12GX. 35¢**
Oz. \$2.50; Varieties: ½ Oz. \$2.00.

D. HEDDEWIGII: Hardy annual Pinks.

Very easily grown and they come in the most prettiest and brightest colors imaginable; they are very showy.

—Fireball. **DIAN-13HF. 35¢**
Deep scarlet; double. ½ Oz. 90¢.

—Gaiety. **DIAN-13G. 25¢**
An attractive mixture of large lacinated single fls with colored zones. ½ Oz. 75¢.

—Lacinated. **DIAN-13HL. 35¢**
Lacinated petals; mixed colors.

—Dwarf Single Mixed. **DIAN-13SX. 25¢**

—Westwood Beauty. **DIAN-13HW. 30¢**
—Brilliant Blend. **DIAN-13BX. 25¢**
Plain edged; beautiful colors. ½ Oz. 75¢.

MARGARET CARNATIONS:

Easily grown and considered the most satisfactory Carnation for the average

garden. It is early and, except where the winters are severe, it will live 3-4 years; if started early, it will flower the same season.

- Choice Mixed. DIAN-12MX. 25¢
Double flowers. Oz. \$2.00.
- New Giants. Mixed. DIAN-12MNX. 25¢
(Malmaison). Finest mixed. Oz. \$2.00.

Hardy Dwarf Carnations: These are biennial but best treated as annuals and if started early will flower the same season; they are excellent for summer bloom; 15"; double; bright colors.

- Dwarf Vienna, Rose. DIAN-12VZ. 25¢
- White. DIAN-12VV. 75¢
- Mixed. DIAN-12VX. 25¢

Any of above: Oz. \$2.50.

HYBRID PINKS:

- Sweet Wivelsfield. DIAN-66W. 25¢
Distinct race; various shades; 12"; HP.
- La Bourville. DIAN-68B. 25¢
Very dwarf silver mats; pink fls; 12"; HP.

D. PLUMARIUS: Grass or Clove Pinks.

This is one of the best species for the border. They grow about 12" high and in both double and single flowers; the singles make a beautiful show in border. They all have a contrasting eye; are real hardy; germinate in 5 days.

- ~~semperflorens~~. DIAN-99S. 25¢
Florist Perpetual Pinks. Mixed. Oz. \$0.4.
- Cyclops. DIAN-99SC. 25¢
Dark rose shades with carmine ring.
- Dwarf Harlequin. DIAN-99DH. 25¢
Single perpetual; very pretty
- Mayflower. DIAN-99M. 30¢
An early strain; dwarf; double, mixed. Oz. \$2.00.
- White fl. pl. DIAN-99WD. 75¢
- Double Dwarf, Mixed. DIAN-99DX. 40¢
Extra dwarf, giant flowered. 1/4 Oz. \$1.50.
- Scoticus, Mixed. DIAN-99S. 25¢
Florist strain in many choice colors and bright eye. Oz. \$2.00.
- Spring Beauty. DIAN-99B. 25¢
A grand flower blend of extra double Carnation-flowered Pinks with many attractive colors and shades. 1/2 Oz. \$2.00.
- Plumarius Mixed. DIAN-99X. 25¢
Oz. \$2.00; lb. \$22.00.

DIANTHUS SPECIES:

- Allwoodii. DIAN-2. 40¢
Hybrids in a good color range; much like Plumarius; RG. 1/2 Oz. \$1.50.
- alpinus. DIAN-5. 30¢
Flowers 1 1/2" ac; stems 2-4" various colors with eye; HP. Oz. \$1.00.
- albus. DIAN-5A. 30¢
This species is very variable due to crossing, but this strain is collected in the Alps from true stands.
- arcticus. DIAN-6. 35¢
Rose; 1 ft; HP.
- arenarius. DIAN-9. 35¢
Fringed fls; frag; white, cream, pink; 6"; HP.
- atropurpureus. DIAN-15. 50¢
A dark red race; Alps.
- caesius: see D. gratianopolitanus.
- cathusianorum. DIAN-11. 40¢
Clusterhead. Like Sw. Williams; many colors; 20"; HB.
- tenuifolius. (Schur) DIAN-11T. 50¢
- tristis. DIAN-11R. 40¢
Collected in Bosnia.
- crinatus. DIAN-40. 35¢
Solitary white fls; 12"; HP. 1/2 Oz. \$1.50.
- cruentatus. DIAN-43. 50¢
Blood-red terminal fls on 18" stems; HP.

- deltoides. DIAN-45. 25¢
Maiden Pinks. Small rosy purple fls; turf-like foliage; 6"; HP.
- alba. DIAN-45A. 30¢
- Bowie's Variety. DIAN-45B. 30¢
Brnze foliage; vivid carmine fls; HP.
- Brilliant. DIAN-45L. 25¢
A brilliant rich rose-pink; 6"; HP.
- erecta. DIAN-45E. 30¢
Crimson fls on short erect stems; fine for PG. 1/2 Oz. 80¢.
- fragrans. DIAN-50. 30¢
Fragrant rose-white and spotted fls; 18"; Crucatus; HP.
- furcatus. DIAN-53. 50¢
Pretty plant; solitary rose fls; 9"; Italian Alps; HP.
- giganteus. see D. carthusianum.
- graniticus. DIAN-58. 40¢
True fls 1" ac; purple; 6"; Pyrenees; HP.
- gratianopolitanus. DIAN-59. 40¢
Cheddar Pinks. Mat forming; 8"; showy double rose; HP. 1/8 Oz. \$4.00.
- grandiflorus. DIAN-59G. 30¢
Pink; for RG. 1/4 Oz. \$1.50.
- solenensis. DIAN-59S. 30¢
Purple fls. 1/4 Oz. \$2.00.
- graveniens. DIAN-60. 30¢
Clusterhead.
- Hoppii. DIAN-66. 40¢
White fls tinged pink, deeply lacinated; cushion; HP.
- hyssopifolius. DIAN-67. 30¢
(D. monspessulanus). Deeply fringed; fragrant; mixed; HP.
- Kilianii. DIAN-70. 40¢
Robust, mat-forming; small white fls; 12".
- Knapii. DIAN-71. 30¢
Lemon-yellow; the only yellow Dianthus. 1/16 Oz. \$1.00.
- latifolius. DIAN-73. 40¢
Erect; 19"; rose to dark red; HP.
- microlepis. DIAN-75. 75¢
Dwarf HP; rose colored; high mats of Bulgaria.
- Liboschitzianus. DIAN-76. 40¢
White fls; 19"; HP; Caucasus.
- monspessulanus: see D. hyssopifolius.
- montenensis. DIAN-85. 35¢
Tufted. 2" high; Macedonia.
- neglectus. DIAN-89. 40¢
Glauc. Pink. Small crimson-pink fls. with lighter eye.
- prolifer. DIAN-101. 50¢
Fringed carmine-pink fls; small heads; 1 ft; RG. HA.
- Rovisi. DIAN-108. 50¢
Showy tufted small Pink; not entirely true from seed; rose colored fls.
- Samoensis. DIAN-111. 40¢
A variable type of D. chinensis.
- squarrosus. DIAN-117. 50¢
Cuspidate; rose fls; Siberia.
- Stanhedra. DIAN-118. 40¢
Rose and spotted fls; fragrant; Alps; HP.
- subneglectus: see carthusianum pumilus. (11)
- striata nitens. DIAN-119N. 40¢
Small white fls; 10 in; HP.
- superbus. DIAN-125. 30¢
Red fls; excellent for cutting; 24"; HP.
- tenuifolius. DIAN-126. 50¢
Wood Pinks. Rose. 1 in. ac; 10 in. tall; HP.
- tenuifolius: see D. carthusianum.
- tortuosus. DIAN-131. 35¢
Clusterhead. Purple fls in dense heads; 2 ft. HP.
- Species Mixed. DIAN-SX. 40¢
- Mixture of Above. DIAN-S. 40¢

DIASCIA. (dye-ASS-nee-uh)

Scrophulariaceae. Twin-Spur. Low slender plants from S. Af. Good for both the border or pot culture; easy.

- Barbarea. DIAS-1. 35¢

Coral-pink, *Nemesia*-like fls with 2 spurs; unusual and most attractive; 9"; HHA. profuse bloomer. 1/2 Oz. \$2.00.

DICENTRA. (dye-SENT-ruh)

Bleeding Heart. *Fumariaceae*. Perennials with rose, yellow or white fls in racemes, thriving in rich soil; germination slow.

—*chrysantha*. DICN-3. 40¢

Golden Ear-drops. Sulphur-yellow fls; 5 ft; does not transplant well; sow seed where they are to grow during winter or very early spring; HP; Calif.

—*oregana*. DICN-10. 50¢

(*Glaucia*). Gray foliage and creamy pink

lockets 8"; HP.

No seed till 1956 recop.

—*spectabilis*. DICN-13. 40¢

Bleeding Heart. Rosy red fls; 2 ft; HP. start seed in cool GH during Winter, best. 1/8 Oz. \$4.00.

DICKSONIA. (dik-SOH-in-ah)

—*Good*. DICK-4. \$1.00

Good GH fern in junival stage; grows to 50 ft, fronds 8 ft long; rather hardy for far South.

—*punctilobula*. DICK-6. 50¢

Hay-cented Fern. Very vigorous grower 1 1/2-2 ft; shade or open.

Planis: 50¢ each; 3. \$1.40. Prepaid.

DICRANOSTIGMA. (die-kray-N-STIG-ma). *Papaveraceae*.

Plants from Central Asia with orange or yellow fls; best in a light soil

—*Franchetianum*. DICR-1. 25¢

Pretty bright fls, 1" ac; 1 ft; HB; with us it volunteers each spring.

DICTAMNUS. (dik-TAM-nus)

Rutaceae. Gas Plant; Burning Bush; *Fraxinella*. A garden favorite that makes large clumps with good sized and showy flowers with a strong lemon scent. They dislike transplanting and enjoy a rich soil; seeds germinate very slowly; they require plenty of freezing and often germinate 2nd year; shade seed bed during summer and keep moist.

—*albus*. DICT-1. 25¢

White flowers; HP.

—*rubra*. DICT-1R. 35¢

Rosy purple fls.

DIDICUS: see *Trachymene*.

DIDYMAOTUS.

Very nice succulent; related to the *Gibbaeums*; fls form at sides of lvs.

—*lapidiformis*. DIDY-4. 50¢

Very interesting and attractive but difficult to grow; solution to the trouble may be in use of lights at night.

DIERAMA. (dye-er-RAY-muh)

Iridaceae. S. Af. cormous plants hardy only in the South (IX); for culture same as *Ixia* or they can be grown under glass in N.

—*Hybrids*. DIER-1. 25¢

—*pendula*. DIER-2. 30¢

Basal lvs; white to mauve fls in drooping spikes; TBb.

—*pulcherrima*. DIER-3. 30¢

Bright purple fls; drooping spikes; 4 ft

—*Mixed*. DIER-X. 25¢

DIETES: see *Moraea*.

Have you good native flowers near at hand? We are interested; write us.

DIGITALIS

Scrophulariaceae. Fox Glove. Erect biennials and perennials favorites in the garden. Their stately spikes, 3 ft. high are crowded with thimble-like flowers, beautifully spotted. They are easily grown from seed sown in the spring or up to August for fls the following season. (dig-i-TAY-lis).

—*PURPUREA*: The common Foxglove. It is a biennial and there are many improved forms and varieties being introduced in this species.

EXCELSIOR HYBRIDS.

DIG-1. 30¢

A new strain with fls all around the stem; fls beautifully marked in various colors. 1/8 Oz. 70¢.

—*gloxinaeflora*. DIG-1. 25¢

Pink spotted fls, more open than in other forms. 1/2 Oz. 50¢.

—*Ivery's Strain*. DIG-1V. 30¢

Beautiful spotted fls; new German strain. 1/4 Oz. 60¢.

—*The Shirley*. DIG-1S. 25¢

A giant hybrid in clear colors; extra choice; 5 ft. 1/2 Oz. 50¢.

—*Zeus's superba*. DIG-1MS. 25¢

A Holland grown strain.

—*Spotted Rose*. DIG-1Z. 25¢

Very large strain in mixed colors for the large border; large Campanula-like upper flowers; true rosette topped. 1/4 Oz. 50¢.

—*White*. DIG-1W. 25¢

A collected type from Austria. Oz. 60¢.

—*Mixed*. DIG-1X. 20¢

A mixture of the above. Oz. 80¢.

OTHER SPECIES:

—*ferugineum*. DIG-5. 30¢

Pale yellow fls; fol. covered with brown; 4 ft; HP.

—*laevigata*. DIG-8. 25¢

A pretty Foxglove with bronzy yellow fls and whitish lips.

—*lanata*. DIG-9. 35¢

A more and showy Foxglove; yellow fls; 2 ft; HP.

—*lutea*. DIG-11. 30¢

Arare and showy Foxglove; yellow fls; 2 ft; HP. 1/4 Oz. 80¢.

—*lutea*. DIG-12. 25¢

Hybrids in shades of salmon. 1/4 Oz. 45¢.

—*mariana*. DIG-15. 40¢

Distinct species with white fls overlaid with golden chestnut; 3 ft; HP.

—*montensis*. DIG-16. 35¢

Different Foxglove; crushed strawberry colored fls; 3 ft; June-Sept; HP.

—*orientalis*. DIG-18. 35¢

White fls in small spikes; nice; 12"; HP. 1/2 Oz. \$1.00.

—*purpurea*. DIG-1PX. 30¢

Common Foxglove. In mixed colors. 1/4 Oz. 60¢.

—*Thapsil*. DIG-25. 30¢

Purple species with pale throat, dotted red; June-Sept; 4 ft; Spain; HP.

—*Species Mixed*. DIG-SX. 25¢

DILL: see *Anethum graveolens*.

DILLWYNIA. (dil-WY-ni-ah)

Leguminosae. Small Heath-like shrubs native of Australia; hardy in (X) zone.

—*cinerascens*. DILL-2. 35¢

Gray Parrot Pea. Australia.

—*glaberrima*. DILL-4. 25¢

—**gramineus.** **DORT-4. 25¢**
(*Meibryanthemum*) Pink, rose, white or red fls; TA.

DORYANTHES. (dor-ee-ANTH-eez)
Spear-lily. *Amaryllidaceae*. Large succulent plants from Australian deserts; lvs in basal rosettes; for the South.

—**excelsa.** **DO-Y-4. 35¢**
Grows to 18 ft; lvs sword-shaped, 4 ft; fls 4" long in heads 12" across.

DOUGLASIA. (dug-LASS-ee-uh)
Primulaceae. Tufted perennials; lvs in rosettes; yellow or rose fls; excellent for GH.

—**laevigata.** **DOUG-3. 35¢**
Bright red fls; collected 5,000 ft. up Mt. Olympus; HP.

—**montana.** **DOUG-5. 35¢**
Purple or lilac fls; Montana; HP.

—**Mixed.** **DOUG-X. 25¢**

DOVYALIS. (doh-LASS-ee-uh)
Fracourtiaceae. Dioecious shrubs or small trees; edible fruits; Ceylon; far South.

—**cafra.** **DOVY-1. 40¢**
(*D. aberia*) Kei-apple; Ceylon; used for preserves; (IX).

DOWNINGIA. (down-INJ-ee-uh)
Lobeliaceae. Small plants native of the W. Amer; they are hardy and make nice GH plants or in the border.

—**immaculata.** **DOWN-2. 30¢**
2-4 inch annual; rich soil; sun; HHA.

DOXANTHA. (doh-ANTH-ah)
Bignoniaceae. Amer. vines; will stand few degrees of frost; GH.

—**Unguis-cati.** **DOXA-1. 50¢**
(*Bignonia Tweediana*) Cat's Claw. GH; bright yellow fls 4" ac; (VI). 100 seeds \$1.50

DRABA. (DRAY-buh)
Cruciferae. Annuals, biennials and perennials; flowers are small and dainty, in white, rose, yellow or purple, in terminal racemes; they are very hardy and excellent in the rockery; if sown late in the fall they germinate quickly in the spring.

—**aizoides.** **DRAB-1. 30¢**
Tufted plant; basal rosettes; bright yellow fls; 4"; HP. 1/8 Oz. \$6.00.

—**pyrenaica:** see *Petrocallis pyrenaica*.

—**Draba Mixed.** **D-1AB-X. 40¢**

DRACAENA. (dras-SEEN-uh)
Liliaceae. Shrubs and trees grown in the GH and out doors in far South; grown mainly for their foliage display.

—**Draco.** **DRAC-4. 50¢**
Dragon Tree. To 60 ft; (IX). ci s Oz. 75¢; lb. \$4.00.

—**indivisa:** The greenhouse *Dracaena*—see *Cordylina indivisa*.

DRACOCEPHALUM.
(dray-koh-SEF-ah-um). Dragonhead. *Labiatae*. Hardy annuals and perennials with blue, purple or white flowers in whorls; they make pretty groups in moist shady spots in the border; easy from seed.

—**diothocum.** **DRPH-6. 30¢**
Erect bushy HA carrying many spikes of long-lasting violet-blue fls; foliage lemon scented; July-Sept; 1-2 ft; space 1 ft.

—**dosiria.** **DRPH-7. 25¢**

—**Forrestii.** **DRPH-8. 35¢**
Blue-purple fls in whorles; 18"; HP;

China.

—**Moldavica.** **DRPH-14. 25¢**
Unusual and easily grown HA, with aromatic, balm-scented fol; bright lavender blue fl-spikes; loved by bees; 2 ft. **Oz. 60¢.**

—**rupestre.** **DRPH-20. 35¢**

—**Ruyschiana.** **DRPH-21. 50¢**
Blue fls; 2 ft; HP; Siberia.

—**tanguticum.** **DRPH-26. 50¢**
Blue fls 1" long; the sp. varies much; Mongolia; 2 ft; HP.

—**Dracacephalum Mixed** **DRPH-X. 25¢**

DROSANTHEMUM. (*dros-ANTH-e-mum*)
Shrubs with nearly cylindrical lvs; fls medium large, often in masses; easy to grow; among most beautiful.

—**speciosum.** **DROS-19. 50¢**
Very beautiful species; crimson or orange fls; 18" high.

DROSERA. (DROSS-er-uh)
Sun-dew. *Droseraceae*. They can be grown under glass; muddy loam and sphagnum is good soil; native of swamps.

—**filiformis.** **DROS-1. 30¢**
Bright purple fls interesting for terrarium; sow in early spring in sand and peat.

DRYAS. (DRY-as)
Rosaceae. Mountain Avens. Dwarf evergreen prostrate plants for the rockery; very hardy in well drained porous soils.

—**octopetala.** **DRYA-5. 30¢**
White fls, 1½" ac; erect; HP.

—**minor.** **DRYA-5M. 50¢**
A very dwarf form; RG.

DRYASIA: see *Polypodium*.

DRYOPTERIS. (drye-OPP-ter-iss)
Wood-Ferns. *Polypodiaceae*. Temperate and tropical ferns; some grown in woody places; others in GH; not difficult.

—**dilatata:** see *spinulosa*.

—**Felix-mas.** **DRYO-14. 50¢**
Male Fern. Effective in masses; shade; 10-18 inches.

Plants: 50¢ each; 3 for \$1.40. Prepaid.

—**Goldiana.** **DRYO-17. 50¢**
Goldie Fern. Tallest and largest of the native wood-ferns; shade or part-shade; easy; 2-3 feet.

Plants: 50¢ each; 3 for \$1.40. Prepaid.

—**hexagonoptera.** **DRYO-18. 50¢**
Winged Woodfern. Triangular fronds; sun or shade; 12-18 inches.

Plants: 50¢ each; 3, \$1.40. Prepaid.

—**lineana.** **DRYO-21. 50¢**
Oak Fern. A beautiful tiny 6 inch fern with branched fronds that should go well in any shady moist place where small ferns would do.

Plants: 50¢ each; 3, \$1.40. Prepaid.

—**marginalis.** **DRYO-22. 50¢**
Leather Woodfern. Attractive species; 1-2 ft; part or full shade.

Plants: 50¢ each; 3, \$1.40. Prepaid.

—**peroneis.** **DRYO-32. 50¢**
Narrow Beech Fern. Arrowhead-shaped fronds on 6-8 inch stems; another fine fern for moist shady places in border or wild garden.

Plants: 50¢ each; 3, \$1.40. Prepaid.

—**spinulosa v dilatata.** **DRYO-37D. 50¢**
Mountain Fancy Fern. Beautiful evergreen fern; best in moist shady places in the border or in the wild garden or woods.

Plants: 50¢ each; 3, \$1.40. Prepaid.

—**thelypteris.** **DRYO-38. 50¢**
Marsh Fern. Delicate fronds; best in a moist open or semi-shaded place; decid;

9-18 inches.

Plants: 50¢ each; 3, \$1.40. Prepaid.
 —*Thelypteris*. DRYO-38. 50¢
 PLANTS: 50¢ each; 3 for \$1.35.

DUCHESNEA.

(dew-KEES-nee-ah)

Indian or Mock Strawberry. Rosaceae.
 Perennials from Asia; trailing branches; flowers yellow followed by fruits; used as a ground cover or in hanging baskets.

—*indica*.

Very decorative; fruits look like Strawberries. ½ Oz. \$1.50.

—*virginiana*.**PLANTS ONLY**Wild Scarlet Strawberry. (*Fragaria*)**DURANTA.**

(dew-RANT-uh)

Verbenaceae. Shs and trs; fls in terminal racemes, followed by drupe-like fruits; hardy in far South.

—*repens*.

Pigeon Berry; Sky-flower. (*Plumeria*) Tr. to 18 ft; (X); 350 seeds to ounce. Oz. \$1.00.

—*variegata*.**DURA-3V. 40¢**

With variegated foliage.

DYCKIA.

(DIK-ee-uh)

Stemless succulents, in basal rosettes and with yellow or orange flowers in racemes or panicles; resembles small Century plants; belongs to the Pineapple family; see potting soil under Succulents.

—*sulphurea*.**DYCK-6. 30¢**

Yellow fls, ½ inch long; 1 ft; Brazil; TP.

DYSSODIA.—*taetoides*.**DYSS-6. 30¢**

Native flower of north central Texas on rocky limestone slopes; related to *Mari-golds*.

EBENOPSIS.

(eb-en-OP-sis)

Leguminosae. Sub-tropical trees and shs; suitable for mild sections of the country.

—*flexicaulis*.**EBEN-1. 30¢**

Texas Ebony. Tree or shrub; fragrant yellow fls; S. Texas; 50 seed to ounce.

ECCREMOCARPUS.

(e-krem-oh-KAHR-pus) Glory-Flower. Big-noniaceae. Climbing shrubs from Chila; tubular fls, yellow, orange or scarlet in terminal racemes followed by fruits. Grow it as a tender annual in the North, but it is a perennial in the South.

—*scaber*.**ECCR-1. 30¢**

(Calampelis) Orange-red fls; start early; warm position; 12 ft; fine climber. Oz. \$3.00.

—*aureus*.**ECCR-1A. 30¢**

Golden yellow flowers.

—*carmineus*.**ECCR-1C. 35¢****ECHEVERIA.**

(ek-ev-VEER-ee-uh)

Crassulaceae. American succulent plants with broad leaves in rosettes and flowers in spikes, racemes or panicles; culture as with *Sempervivums*; the lovely grey or variegated lvs are chief attraction altho the fls are interesting.

—*agavoides*.**ECHE-6. 50¢**

Lvs densely umbricated, 2" long; corolla cone-shaped, reddish with yellow tips; Mex 1,000 seeds \$4.00.

—*carnicolor*.**ECHE-28. 50¢**

Lvs in dense rosettes, 2" long, tinged red; fls bright red; Mex. 1,000 seeds \$6.00.

—*Derenbergii*.**ECHE-47. 50¢**

Lvs in rosettes, 1" wide, grayish white, red margins; reddish yellow fls; Mex.

—*elegans*.

Stemless; very succulent; pinkish fls, with white tips. 250 seeds \$1.50.

—*glaucia*.

Fls pinkish, yellow inside; Mex.

—*Peacockii*.

(*Dr metina*) White lvs tinged pink; panicle fls; stemless; Mexico. 1,000 seeds \$4.00.

—*seiosa*.

Red fls tipped with yellow; Mexico. 1,000 seeds \$6.00.

—*Mixed*.

Species mixed. 1,000 seeds \$3.50.

—*ECHE-X. 50¢***ECHINACEA.**

(ek-i-NAY-she-ah)

Cone Flower. Compositae. Native per. closely related to *Rudbeckia*; bushy growth and daisy-like flower heads, often 6" across; they are fine in the border and for cutting, seed do not germinate evenly; best sown in pots or flats of finely screened soil containing leaf mold, sand and peat moss.

—*angustifolia*.

Showy plant for dry border; rose to purple fls; 3 ft; prefers limestone soil; HP; 250 seeds to ounce.

—*purpurea*.

Purple Coneflower. Purple cones; 5 ft; HP. Oz. \$1.10.

—*Earies* of All.

A nice new variety; very early.

—*Hybrids*.

—*Mixed*. ECHI-1. 30¢

ECHI-4. 25¢

ECHI-4E. 25¢

ECHI-4H. 35¢

ECHI-X. 20¢

ECHINOPS.

(e-KY-nops)

Globe Thistle. Compositae. Thistle-like biennials and perennials with flowers in round heads. They are decorative in the border and easily grown from seed.

—*exaltatus*.

(E. Ritro) Steel-blue fls; 2 ft; good everlasting fls; HP. Oz. 50¢; lb. \$4.00.

—*ruthenicus*.

A form of *E. exaltatus*. ECHN-4. 20¢

—*sphaerocephalus*.

Tall; 6-8 ft; heads 2" ac; HP; (V). Oz. 50¢.

—*Mixed*.

ECHN-7. 30¢

ECHN-8. 30¢

ECHN-X. 20¢

ECHINOACTUS.

(ek-in-oh-KAK-tus)

(WS, CG, NF) Globular with deep ribs; yellow fls with pointed petals; easy; usual soil compost.

—*electracanthus*.

To 5 ft; fls yellow, ¾" long; Mexico.

—*elephorus*.

—*grandis*. ECHK-75. 60¢

—*Palmeri*.

—*Gruosii*. ECHK-108E. 50¢

To 4 ft high, 2½" diam; yellow fls; Cent. Mexico.

—*visnaga*.

ECHK-108G. 50¢

ECHK-108P. 50¢

ECHK-100. 40¢

ECHK-140. 60¢

ECHK-108E. 50¢

ECHK-108G. 50¢

ECHK-108P. 50¢

ECHK-100. 40¢

ECHK-140. 60¢

ECHK-108E. 50¢

ECHK-108G. 50¢

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ECHK-108E. 50¢

ECHK-108G. 50¢

ECHK-108P. 50¢

ECHK-100. 40¢

ECHK-140. 60¢

ECHK-108E.

- *Paileanus*.
- *p-imolianatus*.
- *Reichenbachii*.
- *Schwarzii*.
- *ilochidiatus*.
- Fls 2" long; Mexico.
- *Webschianus*.

ECHU-60P. 50¢
 ECHU-72. 50¢
 ECHU-75. 50¢
 ECHU-100. 50¢
 ECHU-95. 50¢
 ECHU-100. 50¢

EHRETIA. (er-RET-te-ah)
 Boraginaceae. Tropical trees and shrubs suitable for the far South. They are interesting and ornamental.
 — *laevis*. EHRE-3. 35¢
 Shrub or tree to 40 ft; fls in 3" corymbs; India.

ECHINOCYSTIS.

Cucurbitaceae. Tender annuals and per. vines; for arbors and fences; rapid growers.
 — *chata*. ECHY-3. 35¢
 Wild Cucumber. Tender annual vine; to 20 ft; fast growing; covers unsightly objects 35 seeds to oz; Oz. 50¢.

ECHINOMASTUS. (ek-in-oh-MAST-us)
 Cactaceae. Globular types similar to Echinocactus and Coryphantha.

— *durangensis*. ECHT-4. 40¢

ECHINOPSIS. (ek-in-NOP-siss)

Cactaceae. Sea Urchin Cacti. Low plants.
 — *mirabilis*. ECHP-56. 35¢
 Cylindrical, 6" tall; white fls, 5" long; Argentine.

ECHINUS.

Prostrate sh; not too easy.
 — *edentulus*. (apiculatus) ECHS-5. 50¢

ECHIUM

Viper's-Bugloss. Boraginaceae. Annuals, biennials and perennials thriving in rather poor soil and sunny spots. Flowers are in blue, purple, rose or white, in coiled racemes. They are warm region plants and are grown out doors in the far South. E. vulgare is a fine bee food in waste places. (EK-i-um).

— *Bourgaeianum*. ECHM-1. 30¢
 Shrub to 10 ft; (IX). Oz. 65¢.

— *fastuosum*. ECHM-4. 50¢
 Shrub; 6 ft; dark blue fls; red stems; (VII). 100 seeds \$1.00; 1,000, \$3.75.

— *Dwarf Hybrids*. ECHM-6D. 25¢
 Mixed blue, lavender and rose shades flowering for months; 1 ft; HA.

— *plantagineum*. ECHM-7. 30¢
 Blue and light purple fls; HA or HB; 3 ft. This also makes a beautiful pot pl if strated in Feb. at 60 F.

— *Blue Bedder*. ECHM-7B. 25¢
 Oz. 60¢.

— *pomponicum*. ECHM-8. 30¢
 — *rubrum*. ECHM-9. 30¢

Red fls in narrow panicles; 3 ft; HB. 100 seeds \$1.00; 1,000, \$5.00.

— *vulgare*. ECHM-12. 25¢
 Blue Weed. For bee food on poor soil; HA; must be germinated in light. Oz. 50¢; lb. \$1.75.

— *Blue Bedder*. ECHM-12B. 25¢
 New compact, bright blue fls; 1 ft; HA. Oz. 50¢.

— *Mixed*. ECHM-X. 20¢

EDGEWORTHIA.

(ej-WORTH-ee-uh)
 Thymelaeaceae. Shs from West Asia with dense heads of small fragrant yellow fls.

— *papyifera*. EDGE-3. 50¢
 (hrysanth), gardneri) Paper Bush. It needs a rather moist summer; (VII). Oz. 90¢; lb. \$5.00.

EDRAIANTHUS.

(ed-er-AN-thus)
 Campanulaceae. Low tufted perennials from the Balkin regions and related to Wahlenbergia. Good RG plant; 6-12" ac; easily grown from seed.

— *Mixed*. EDRA-X. 35¢

EKEBERGIA.

— *capensis*. EKEB-3. 50¢
 Dark green lvs; evergreen; 35 ft; S. Af.

ELAEAGNUS.

(el-ee-AG-nus)
 Elaeagnaceae. Ornamental small trees and shrubs. They are hardy and easily grown in any well drained soil; stratify the seed, if possible and sow in the spring or they can be sown in late fall; decid. species best increased from seed sown in February.

— *angustifolia*. ELAE-1. 30¢
 Russian Olive. (III). d.b., 50¢ lb; c.s. 1b.

\$1.60. ELAE-3. 35¢
 — *commutata*. Silver Berry. 12 ft. c.s. Oz. 40¢; lb. \$2.50.

— *pungens*. ELAE-13. 40¢
 Ev. gr sh to 10 ft; lvs silvery beneath; fls in racemes; Japan. Oz. 70¢; lb. \$4.00.

— *Simonii*. ELAE-13S. 40¢
 Lvs variegated yellow and pinkish white.

Oz. 70¢; lb. \$4.00.

— *multiflora*. ELAE-10. 50¢
 Gumi. Decid. sh. to 6 ft; fragrant fls; April-May, followed by edible scarlet frs; Japan. Oz. 90¢.

— *umbellata*. ELAE-15. 40¢
 Pretty sh or tr to 18 ft; fls fragrant; silvery lvs; Japan. Oz. 60¢; lb. \$4.00.

ELAEIS.

— *guineensis*. ELAS-1. 50¢
 African Oil Palm. Grown in far S for ornament; valuable for its oil-bearing fr. 100 seeds \$5.00; 1,000, \$30.00.

ELAEOCARPUS.

(el-ee-oh-KAHR-pus)
 Elaeocarpaceae. Trees native of warm regions; hardy in (X) zone

— *ganitrus*. ELAR-8. 40¢
 This tall tree furnishes the sacred beads of the Hindus.

— *reticulatus*. ELAR-10. 35¢

ELAEODENDRON.

(el-ee-oh-DEN-dron)
 Celastraceae. Leathery-leaf tropical or subtropical sh and trs; GH in N; hardy in far S.

— *capense*. ELAO-1. 50¢
 Evergreen shrub; grown in GH; (X). 100 seeds 95¢.

ELSHOLTZIA.

(el-SHOLT-see-uh)
 Labiatae. Plants and shrubs having dense spikes of small blue or lilac fls; sunny spots to get flowers; sow in the spring.

— *Stauntonii*. ELSH-7. 25¢
 Shrub to 5 ft; fls lilac-purple, in dense 1-sided spikes, 8" long; SEPT-OCT; (IV); N. China.

EMBOTHRIUM.

Proteaceae. Sh and small trs of S. Hemisphere; showy; in dense racemes, followed by fruits.

— *coccineum*. EMBO-1. 50¢
 Shrub; scarlet fls; (IX). 100 seeds \$2.00.

EMILIA.

(em-MILL-ee-uh)
 Tassel-Flower. Compositae. Annuals and perennials of low neat habit; native of the tropics. The slender stems are tipped by

small rayless many colored heads surrounded by white bristles; grow as a TA in the N; sun; fls July till frost; they were formerly listed under *Cacalia*.

- sagittata*. **EMIL-1X. 25¢**
Fls $\frac{1}{2}$ " ac; in loose corymbs; 2 ft; TA.
- coccinea*. **EMIL-1C. 25¢**
Scarlet, tassel-like fls.
- aurea*. **EMIL-1Y. 25¢**
Golden yellow variety.
- lutea*. **EMIL-1G. 25¢**
Orange floweres.
- Emilia* or *Cacalia* Mixed. **EMIL-X. 20¢**

EMPETRUM. (EM-pet-rum)
Empetraceae. More or less decumbent shrublets from N. Eurasia.

- nigrum*. **EMPE-4. 40¢**
Crow-berry. Spreading Heath-like ev. gr; 10"; black fruit. **Oz. \$3.00.**

ENCELIA. (en-ESEL-ee-uh)
Compositae. Plants or sub-shs with showy heads of yellow ray-fls and yellow or red ray-fls; N. Amer to Chile.

- calva*. **ENCE-3. 30¢**
Perennial to 2 ft; yellow Aster-like fls; hardy in dry soils; RG. **Oz. 70¢.**

ENGELMANNIA.
Cosmositae. One perennial; dry soils of the S. Y.; related to *Parthenium*.

- pinnatifida*. **ENGL-1. 35¢**
Cut-Leaf-Daisy. 3 ft; fl-heads, 1" ac; of yellow ray and disk fls in corymbs; Texas.

ENKIANTHUS. (en-ke-AN-thus)
Hardy deciduous shrubs native of Asia. They are of attractive upright growth with long slender clusters of nodding flowers in the spring. They thrive in moist, light soils with peat or leaf mould; easily grown from seed; fairly hardy in the North; (Eriacaceae). Sow seed during Feb. on peaty soil, cover very lightly.

- campanulatus*. **ENKI-1. 35¢**
Bell-shaped yellow or pale orange fls, veined with red, $\frac{1}{2}$ " long; 30 ft; Japan.
- cernuus*. **ENKI-3. 35¢**
White bell-shaped fls; 15 ft; Japan. **Oz. \$1.40.**
- perulatus*. **ENKI-7. 75¢**
(E. japonica) Urn-shaped flowers; 6 ft; white. **Oz. \$1.50.**

ENTELEA. (n-tel-EE-ah)
One large-leaved shrub; to 20 ft; N. Z.

—*arborescens*. **ENTE-1. 50¢**
Attractive vigorous growing sh; Mulberry shaped lvs; beautiful white fls; very handsome; 10 ft; (X); N. Z.

ENTEROLOBIUM. (en-ter-oh-LOH-bi-um)
Leguminosae. Trop. Amer trs; fls in heads or clusters with showy stamens; ornamental; for South.

- Timbouva*. **ENTR-3. 50¢**
Elephant's Ear. (X). 100 seeds **\$1.50.**

EPIDENDRON. (ep-id-DEN-dron)
Orchidaceae. Eypiphytic tropical American Orchids. grown same as *Caytleyas*.

- Red Orchid*. **EPID-44. \$1.00**
Crucifix Orchid. Terminal racemes of many vermilion colored fls 1" across.
- O'Brienianum*. **EPID-44B. \$1.00**

PLEASE DO NOT USE COMMON NAMES

EPILOBIUM. (ep-il-LOH-bee-um)
Hardy plants suitable for damp places or in the wild garden.

- augustifolium*. **EPIL-4. 30¢**
Fire Weed. Purple fls 1" ac in terminal racemes; 3 ft; July-Aug; moist sunny spot; HP. **PLANTS: 60¢ each; 3 for \$1.50.**
- rigidum*. **EPIL-30. 50¢**
Rare; RG; 1 inch high; vivid rose-pink fls; pretty 4" mats; HP.

EPITHELANTHA. (ep-ith-el-LANTH-uh)
Cactaceae. Button Cactus. One small globular species from Texas.

- micromeris* v. *Teggiei*. **EPIT-1G. 40¢**
Fls light pink, $\frac{1}{4}$ " across.

EPOSTOA: see under *Cacti*.

ERANTHIS. (ee-RAN-this)
Ranunculaceae. Winter Aconite. Small tuberous rooted hardy perennials with bright Buttercup-like flowers and whorls of shiny leaves in early spring, flowering with the Snowdrops; very pretty and some should be in the RG or border.

- hyemalis*. **ERAN-1. 30¢**
Golden yellow fls, $1\frac{1}{2}$ " ac; 6 inches high.
- ciucica*. **ERAN-1C. 30¢**
Has broader sepals.

EREMURUS

Desert Candle; Foxtail Lily. *Lilaceae*. Spectacular plants up to 8 feet high, clothed for half their height with close-set starry blooms that lasts for several weeks. Thrive in a rich fibrous well drained soil having some sand; sunny places; seedlings develop slowly; hardy in the N with winter protection; cover with leaves and a water-tight box placed over them to shed winter rains. Do not hoe soil; roots run far out from plant; sow seed in fall to germinate in February. The plants and seedlings die to the ground during June to reappear in late autumn; cover bed with paper for periods of 10 days during dormant season to kill weeds.

- Bungei*. **EREM-4. 40¢**
- Elwesii*. **EREM-6. 50¢**
Pink fls with deeper band down center; 3 ft; HHP. $\frac{1}{4}$ Oz. **\$2.00.**
- Hybrids*. **EREM-5Y. 25¢**
Seed saved from yellow shades.
- Mixed*. **EREM-X. 25¢**
Oz. **\$4.50.**

ERICA. (ER-i-kah)
One of the Heathers; evergreen shrubs, very attractive for mild climates. Needle-like leaves; lime-free soil. A few are hardy in Zone (IV) with some protection; they also make beautiful pot-plants for the GH; use fibrous peat and coarse sand in potting; the species are easily increased from seed sown during Feb. on peaty soil; seedlings damp off easily, so set them high in GH to get a good night air circulation.

- australis*. **ERIC-2. 30¢**
Purplish red fls in terminal clusters; 4 ft; spring bl; HHP.
- capensis* Varieties Mixed. **ERIC-8X. 50¢**
- Springwood White*. **ERIC-10S. 50¢**
9 in. high; good white.
- praecox rubra*. **ERIC-10R. 50¢**
A pretty deep red; 6"; HHS.
- Red*. **ERIC-10D. 30¢**
Twisted Heather; red fls; 12". **Oz. 70¢.**

- White. ERIC-10A. 30¢
- vivelii. E. IC-10V. 50¢
- Lavender-red fls; 9 inches; HSH. ERIC-18. 40¢
- cinerea alba. E. IC-18G. 40¢
- Twisted H. White fls; June-Aug; 2 ft. E. IC-18G. 40¢
- atrosanguineum. E. IC-18G. 40¢
- Blood-red fls; July-Aug; 2 ft; HSH. ERIC-18R. 40¢
- Rose Queen. ERIC-18R. 40¢
- Rose-pink fls; July-Aug; 9-12"; HSH. E. IC-38X. 40¢
- mediterranean Mixed. E. IC-38R. 50¢
- W. F. Rackliff. ERIC-38A. 50¢
- Large flowering white; Jan-March; 1 ft. ERIC-38M. 50¢
- alba. ERIC-38M. 50¢
- Dwarf form; 10 inches; white fls. ERIC-38M. 50¢
- Tall Form. ERIC-53. 35¢
- 2-3 ft; white flowers. ERIC-53. 35¢
- persoluta; see E. subdivaricata. ERIC-53. 35¢
- subdivaricata. ERIC-53. 35¢
- Rose or white fls; 2 ft; fls in racemes; S. Africa. ERIC-56. 50¢
- terminalis. ERIC-57. 30¢
- Pink fls; 3-5 ft; HSH. ERIC-57. 30¢
- umbellata. ERIC-57. 30¢
- Flesh to rose-pink in terminal umbels; 3 ft; HSH. ERIC-38R. 50¢
- Veitchii. ERIC-60. 30¢
- Hybrid between E. aborea and lusitanica; white flowers. ERIC-X. 25¢
- Erica Mixture. ERIC-X. 25¢

ERIGERON

Annuals and perennials resembling wild Asters; in white, rose or violet ray-flowers. They are easy to grow in the border or wild garden; a few are nice RG plants; (Compositae). (e-RIJ-er-on).

- aurantiacus. ERIG-6. 30¢
- Double orange Daisy. 1-2 inch heads; 10" high; HP. 1/8 oz. 150.
- compositus. ERIG-17. 30¢
- Rays white or purplish; 2 in. high; HP. ERIG-18. 30¢
- coccineus. ERIG-18. 30¢
- Small blue fls; May-August; easy; HP. ERIG-20. 30¢
- Coulteri. ERIG-20. 30¢
- Large white flowered species; moist wood—10"; HP. 1/8 oz. \$1.25.
- glabellus. ERIG-27. 30¢
- Violet or purple rays, 2" across; 15"; HP. ERIG-35. 50¢
- Karvinskianus. ERIG-35. 50¢
- Blooms first year from seed; white rays; 18"; decumbent; border; Mexico. ERIG-36. 40¢
- lusitanica. ERIG-36. 40¢
- Pink or white fls; 12 ft. shrub. ERIG-40. 30¢
- mucronatus; see Karvinskianus. ERIG-40. 30¢
- macranthus. ERIG-40. 30¢
- Vilae-purple; 30"; fine clumps in border; HP. ERIG-44. 30¢
- multi-radiatus. ERIG-44R. 50¢
- roseus. O. S. 60.
- Rose ds 3" ac; 1 ft; HP. 1/4 O. S. 60.
- salsuginosus. ERIG-55. 30¢
- Large blue fls, 2" ac; 1 1/2 ft; very hardy. ERIG-57. 30¢
- speciosus. ERIG-57. 30¢
- Dark violet; 2 ft; HP. 1/4 O. S. 50.
- Erigeron Mixed. ERIG-X. 25¢

ERINUS.

(er-RYE-nus)

Hardy tufted perennials for the RG or for edging. They are 3-4 inches high and do best in partial shade and with good drainage.

- alpinus. ERIN-1. 30¢
- Purple fls, 1/2" ac; HP. ERIN-1A. 30¢
- albus. ERIN-1H. 30¢
- Dr. Hahnle. ERIN-1H. 30¢
- Carmine-red and comes true from seed; 3"; HP.

ERIOBOTRYA. (ee-ree-oh-BOT-ree-ah)

Loquat. Rosaceae. Asian evergreen trees and shrubs; ornamental; (X).

- japonica. ERIB-1. 50¢

Ornamental pot plant in North; out doors in (IX) zone; fresh seed in May.

ERIOGONUM.

(ee-ree-GOH-num)

Polygonaceae. Natives of western U.S., requiring a well drained peaty soil and a sunny position; fine for the rockery.

- flavum Piperi. EGON-9. 30¢
- Yellow fls; 8"; April-May; HP. EGON-17. 30¢
- microthecum. EGON-17. 30¢
- Gray-white mounds; white to rose flower heads; 6"; HP. EGON-20. 30¢
- nudum. EGON-20. 30¢
- White or yellow flower heads; poor soil; 1 ft; HP. EGON-23. 30¢
- ovalifolium. EGON-23. 30¢
- Bright yellow flower heads; dry soil; RG; sun; 3-6 inches; HP. EGON-27. 30¢
- pyrolaeifolium. EGON-27. 30¢
- Tufted; white to red flower heads; dry soil; RG; 4 inches high; HP. EGON-30. 50¢
- racemosum. EGON-30. 50¢
- White or pinkish fls; 2 1/2 ft; HP. Colo. EGON-32. 30¢
- subalpinum. EGON-32. 30¢
- Sulphur Plant. Yellowish white heads; May-June; 1 ft; HP. EGON-X. 25¢
- Eriogonum Mixed. EGON-X. 25¢

ERIOPHYLLUM.

(ear-ee-oh-FILL-um)

Compositae. Annuals and perennials of Western U.S. Flowers yellowish ray and disks; grown in dry places.

- intergrifolium. ERIO-4. 30¢
- Small Oregon Sunshine. Showy; May-Aug; 1 ft; HP. ERIO-6. 30¢
- lanatum. ERIO-6. 30¢
- Oregon Sunshine. Golden daisies; dry places; 12"-18"; HP. ERIO-8. 30¢
- lanceolatum. ERIO-8. 30¢
- Grows on hot rocks in crevices; 2-4 in; a real gem; good though subject. ERIO-X. 25¢
- Eriophyllum Blend. ERIO-X. 25¢

ERODIUM.

(ee-ROyH-dee-um)

Heron's-bill. Geraniaceae. Annuals and perennials suitable for the RG or border; best in gritty loam with some lime; sunny location; they have a long blooming period.

- absinthioides. EROD-1. 50¢
- (olympicum). Violet fls, 3/4" ac; 8"; HP. EROD-15. 25¢
- gruinum. EROD-15. 25¢
- Violet-blue fls; 18"; HA or HB; Persia. Oz. 75¢.
- Manescavil. EROD-22. 35¢
- HP to 18"; rosy purple fls, 1 1/2" ac; Pyren. EROD-28. 50¢
- supracanum. EROD-28. 50¢
- Pink lined with rose; lvs basal; 4"; HP.

ERYNGIUM.

(e-RIN-je-um)

Umbelliferae. Sea Holly; Eryngo. The pretty steel-blue or gray foliage of the larger species is most attractive in the border and the smaller kinds for the rockery. Some species make excellent cutflowers which can also be dried. Best in light rich soil and an open sunny place; most species are perennial; best to sow seed in the late fall to germinate in the spring.

- alpinum v. superbum. ERYN-2S. 35¢
- Light blue; June-July; germinates best in light; HP. ERYN-2B. 35¢
- Dark Blue. ERYN-2B. 35¢
- 1/2 Oz. \$2.00. ERYN-6. 25¢
- Bourgatii. ERYN-6. 25¢
- Steel-blue flower-heads; 1 1/2 ft; Medit. 1/4 Oz. \$2.00. ERYN-9. 30¢
- giganteum. ERYN-9. 30¢
- Blue or pale green fls; 6 ft; HP. 1/2 Oz. 70¢
- Leavenworthii. ERYN-11. 35¢
- (Eringo) Purple-violet flower heads; July-

Oct; dry sunny places; showy; 1-2 ft; HP.
 ½ Oz. 80¢.

—**planum.** **ERYN-16. 30¢**
 Very ornamental; sky-blue fls, ½" long
 heads; 3 ft; HP. ½ Oz. 70¢.
 —**Eryngium Mixed.** **ERYN-X. 25¢**

ERYSIMUM.

(e-RIS-im-um)

Blister Cress. Cruciferae. These closely resemble Wallflowers; flowers white, yellow or lilac. They thrive in a sunny exposure; easy to grow. Most are excellent for the rocky and the biennials and perennials are hardy; sow where they are to grow.

—**asperum.** **ERYS-1. 30¢**
 (Cheiranthus allionii) Dwarf compact, deep orange; 1 ft; HA.

—**Orange Queen.** **ERYS-1Q. 30¢**
 A very pretty orange variety; HA.

—**Golden Bedder.** **ERYS-1G. 30¢**
 New; golden yellow; 1 ft; HA.

—**linifolium.** **ERYS-13. 30¢**
 (Cheiranthus linifolia) Low clumps; lilac fls; 1 ft; HP. Oz. 60¢.

—**murale.** **ERYS-14. 30¢**
 Golden yellow fls in racemes; HB but grow as HA; 20 inches high.

—**Perofskianum.** **ERYS-20. 30¢**
 Blister Cress. Orange-yellow fls; 1-2 ft; good on banks; HA. Oz. 50¢.

—**pulchellum.** **ERYS-22. 50¢**
 Deep orange fls; 6-24 inches; caespitose; HP; Greece.

—**pumilum.** **ERYS-23. 50¢**
 Sulphur-yellow fls; 6"; HP; Europe.

—**Wittmanii.** **ERYS-30. 30¢**
 —**Erysimum Mixed.** **ERYS-X. 25¢**

ERYTHEA.

(ehr-THÉE-ah)

Mexican Palms of low growth and planted in the far South; germinates in 70 days.

—**armata.** **ERYH-1. 50¢**
 (Brahea glauca) Mexican Blue Palm; (X). 10 seeds 50¢; 100, \$3.00; 1,000, \$12.00.

—**Roezii.** **ERYH-1H. 50¢**
 Mexican Blue Palm. to 40 ft; sometimes listed under Brahea. 100 seeds \$1.50; 1,000, \$8.00. (300 seeds to ounce)

—**edulis.** **ERYH-3. 50¢**
 (Brahea edulis) Guadalupe Palm; (X). 100 seeds \$4.00; 1,000 \$9.50.

ERYTHRINA.

(ehr-ith-RYE-nuh)

Coral Tree. Leguminosae. Trees and shrubs grown in the South; showy red and reddish or yellowish flowers followed by long pods. The herbaceous kinds are grown under glass.

—**arborescens.** **ERTH-1. 50¢**
 Low flowering tree from Himalayas; fls in short dense racemes; 30-50 seeds to oz.

Oz. \$1.50.
 —**Corallodendron.** **ERTH-4. 30¢**
 Tree to 20 ft; pretty scarlet fls; Columbia.

—**Cristi-galli.** **ERTH-5. 50¢**
 (Blakii) Coral-Tree. Crimson fls; showy; (X). 65 seeds to oz. 100 sds \$2.00; 1,000, \$9.00.

—**humeana.** **ERTH-12. 30¢**
 Collected in South Rhodesia.

—**indica.** **ERTH-11. 30¢**
 Tall tree with dense short racemes of scarlet flowers; pretty; 50 seeds to ounce.

—**alba.** **ERTH-11A. 35¢**
 White flowered form; good shade tree.

—**tomentosa.** **ERTH-22. 35¢**
 Collected in Columbia.

—**Erythrina Mixed.** **ERTH-X. 25¢**

ERYTHRONIUM.

(er-i-THRO-ne-um)

Trout-Lily. Adder's Tongue. Liliaceae. Early spring blooming bulbous plants with graceful nodding flowers and often richly mottled leaves; they are nice in the rocky

or wild garden for a part shaded nook; rich light soil, mulched in the winter with leaves.

—**citrinum.** **ERYT-5. 35¢**

Lemon-yellow to white; Ore-Cal; 8"; HP.

—**grandiflorum.** **ERYT-7. 25¢**

—**Hendersonii.** **ERYT-9. 35¢**

Purple fls; mottled lvs; 1 ft; HP.

—**obtusatum.** **ERYT-7B. 40¢**

Bright yellow fls; but with purple anthers;

Wyo-Mont.

—**oregonum.** **ERYT-20. 30¢**

ESCHSCHOLZIA

Papaveraceae. Western N. Amer. natives with showy yellow flowers; grow as annuals; plant early; they do well on poor dry soils. (esh-SHLT-zi-ah).

SINGLE FLOWERED VARIETIES: Very showy in masses; all 50¢ per Oz. lb. \$3.00.

—**Carmine King.** **ESCH-1C. 20¢**

This is the best carmine variety.

—**Dainty King.** **ESCH-1D. 20¢**

Dainty, pretty soft pink; beautiful.

—**Dazzler.** **ESCH-1L. 20¢**

Erect, compact; flashing scarlet; showy.

—**Golden West.** **ESCH-1G. 20¢**

One of the best bright yellows; with an orange center.

—**Mandarin.** **ESCH-1M. 20¢**

Inside petals orange; outside scarlet.

—**Mikado.** **ESCH-1K. 20¢**

A very showy orange-crimson.

—**Orange Flame.** **ESCH-1F. 20¢**

Vivid orange-scarlet; showy in masses

—**Orange King.** **ESCH-1R. 20¢**

A very showy orange.

—**Rose Cardinal.** **ESCH-1N. 20¢**

A beautiful carmine-pink.

—**Scarlet Beauty.** **ESCH-1S. 20¢**

Probably the best scarlet variety.

—**Tango.** **ESCH-1T. 20¢**

Bronzy red and terra cotta.

—**The Geisha.** **ESCH-1H. 20¢**

Brilliant gold and crimson; showy.

—**Vesuvius.** **ESCH-1V. 20¢**

Showy Wallflower-red.

—**White Emperor.** **ESCH-1W. 20¢**

The best pure white.

—**Red Chief.** **ESCH-1RC. 20¢**

A real fiery red color.

—**Blend of Above Varieties.** **ESCH-1X. 20¢**

Any above: Oz. 75¢.

CALIFORNICA FL. PL: Double flowering.

All \$1.00 per ounce.

—**Creamy Crinkles.** **ESCH-3A. 20¢**

Apricot-buff; a real showy variety.

—**Flambeau.** **ESCH-3F. 20¢**

Rich orange-scarlet.

—**Golden Glory.** **ESCH-3G. 20¢**

Deep golden orange-yellow. orange center; pretty.

—**Robert Gardiner.** **ESCH-3R. 20¢**

A showy orange.

—**Sunbeam.** **ESCH-3B. 20¢**

—**Sweetheart.** **ESCH-3S. 20¢**

Rose on a cream ground; pretty.

—**Mixed Doubles.** **ESCH-3X. 20¢**

Any above varieties: Oz. \$1.20.

ESCOBARIA.

(ess-koh-BAY-ree-uh)

Cactaceae. Small Mexican and Texas

Cactus.

—**exiguus.** **ESCO-8. 50¢**

ESPOSTOA.

Cactaceae. One columnar Cactus; Ecuador.

Beautiful plants; require very little water at all times.

—**lanata.** **ESPO-1. 35¢**

To 15 ft; pinkish fls, 2" long.

—*me-arostele*.
Matted silky hairs.

ESCONTRIA. (ess-KONT-ree-uh)
Cactaceae. One S. Mex. Cactus similar to *Cereus*.

—*Chiotilla*. **ESCT-1. 40¢**
Tree-like, to 20 ft; fls 1" long.

EUCALYPTUS

Gum Trees. Myrtaceae. Rapid growing evergreen trees of warm regions; some are profuse bloomers and make a valuable source for honey; they are very ornamental trees. Sow seeds early in the summer, cover with lath shade and transplant the following year. (eu-kah-LIP-tus).

—*botryoides*. **EUCA-22. 50¢**
Bangalay. One of the best shade and ornamental Gums; wide spreading tr. to 50 ft; good coast tree.

—*caesia*. **EUCA-26. 50¢**
Lovely deep pink fls; nearly ever-blooming in spring; needs good drainage; 20 ft.

—*calophylla*. **EUCA-27. 50¢**
Port Gregory Gum. Pink, red or pure white fls; 30 ft. **Oz. \$2.00.**

—*camaldulensis*. **EUCA-30. 40¢**
(Syn. *rostrata*) River Red Gum. Strong grower for deep soils; 60 ft. **Oz. 90¢.**

—*capitellata*. **EUCA-36. 50¢**
A fast growing tr; 50 ft; white fls.

—*cinerea*. **EUCA-38. 50¢**
Fine ornamental shade tree in cooler sections; silvery foliage; 20 ft.

—*citriodora*. **EUCA-40. 50¢**
Lemon Scented Gum. 30 ft. **Oz. 90¢.**

—*cladocalyx*. **EUCA-43. 50¢**
Sugar Gum. Fine fast growing street tr; good for windbreaks; 50 ft. **Oz. 90¢.**

—*cosmophylla*. **EUCA-54. 50¢**
Cup Gum. Lovely cream or yellow fls; very pretty in bud; effective as cutflowers; 25 ft. S. Australia.

—*crucis*. **EUCA-56. 50¢**
Silver Mallee. Ideal border plant; dry places; white frosted stems, buds and lvs; 8 ft.

—*dives*. **EUCA-65. 50¢**
A valuable tree for distillation purposes; 40 ft; Aust.

—*erythronema*. **EUCA-74. 50¢**
One of the finest of the Gums; handsome small tree from W. Aust; large brilliant red flower buds and deep yellow fls; 20 ft.

—*eugenioides*. **EUCA-79. 75¢**
White String-bark. Fine coast and forestry tree; 50-75 ft; Aust.

—*ficifolia*. **EUCA-81. 50¢**
Scarlet Flowered Gum. 30 ft; fls 1½ in. long; in panicles; pink-scarlet. **Oz. \$2.00.**

—*globulus*. **EUCA-110. 50¢**
Tasmanian Blue Gum. Handsome foliage; suitable for GH growing and summer bedding; (IX); try starting seeds in flats during June; HHTr. **Oz. \$1.00.**

—*gompcephala*. **EUCA-112. 40¢**
A tall valuable timber tree for coastal areas with light soils; 50-100 ft. **Oz. 90¢.**

—*gracilis*. **EUCA-115. 35¢**
Mallu. Grows from more than one stem young foliage, stems and buds, buds, bronze; fls in many-fl umbels; to 40 ft.

—*gunni*. **EUCA-122. 40¢**
Effective street tree for sandstone areas; 40 ft.

—*haemastonia*. **EUCA-124. 40¢**

—*leucoxylon*. **EUCA-154. 50¢**
White Iron-bark. Good, fast growing tr; white fls; does well in medium dry soils; 60 ft.

—*longifolia*. **EUCA-160. 50¢**

Woolly Tree. Large spreading tr for deep soils; 50 ft.

—*maculata*. **EUCA-172. 40¢**
Spotted Gum. Fast growing timber tr for mountain or coastal areas; 60 ft. **Oz. 90¢.**

—*macarthurii*. **EUCA-164. 50¢**
Spreading tree; source of a valuable perfume; 50-75 ft.

—*macrocarpa*. **EUCA-166. 50¢**
Coolgardie Rose. Largest flowered of all the Eucalyptus; brilliant red fls up to 5"

across; decorative seed vessels; shelter from winds; good drainage; dry places; large glaucous lvs; 10 ft. ½ **Oz. \$1.60.**

—*macrorrhyncha*. **EUCA-168. 50¢**
String-bark. Good tree for dry places; 50 ft.

—*Maidenii*. **EUCA-175. 50¢**
Fine Aust. tree for mountain and slope areas; 50-100 ft.

—*marginata*. **EUCA-176. 50¢**
Jarrah. Valuable W. Aust. timber tree for coast; 50-100 ft.

—*megacornula*. **EUCA-178. 50¢**
Newly discovered species; most unique of the Eucalyptuses; huge 3-4" yellowish green fls and remarkable warty operculums useful for decorations; quick grower; dry hot places; stands 18 degrees F.

—*melliodora*. **EUCA-182. 50¢**
Yellow Box. Attractive fast growing shade and honey tree; 60 ft. **Oz. 90¢.**

—*obliqua*. **EUCA-200. 50¢**
Messmate. Tall tree best in rich soils; coasts or slopes; 05-200 ft.

—*occidentalis*. **EUCA-203. 50¢**
W. Australian tree for clayey loams; 50-80 ft.

—*paniculata*. **EUCA-220. 50¢**
Large Australian tree for coast or slopes.

—*pillularis*. **EUCA-224. 50¢**
Black-butt. Tall straight tree for slopes and coastal areas.

—*piperita*. **EUCA-225. 50¢**
Stringy-bark. Small to medium tr; rather spreading habit; white fls.

—*podalyriaefolia*. **EUCA-227. 40¢**

—*polyanthemus*. **EUCA-229. 50¢**
Red Box. Spreading and very floriferous ornamental tr for inland areas; 40 ft.

—*Preissiana*. **EUCA-231. 50¢**
One of the W. Aust. flowering Gums; large golden yellow fls; coasts or slopes; 8-10 ft.

—*pyriformis*. **EUCA-236. 50¢**
Large red fls, 4" ac; golden anthers; very pretty sh; give shelter; 10 ft.

—*resinifera*. **EUCA-244. 50¢**
Large tree for light sandy soils on coasts. ½ **Oz. 75¢.**

—*rostrata*: see *E. camaldulensis*.

—*rudis*. **EUCA-250. 50¢**
Spreading Australian tree; 50 ft.

—*saligna*. **EUCA-252. 40¢**
Tall shaft-like tr for mt. or coast; 60 ft.

—*sideroxylon*. **EUCA-269. 50¢**
Iron-bark. White fls; 50 ft. gray leaves.

—*sideroxylon v. rosea*. **EUCA-269R. 35¢**
Red Ironbark. Medium size tr; rose fls in umbels.

—*Stowardii*. **EUCA-284. 50¢**
Large yellow fls; dwarf; sandy soil; 8 ft.

—*Stuartiana*. **EUCA-288. 50¢**
Apple Box. Spreading tr; 50 ft.

—*tereticornis*. **EUCA-290. 50¢**
A fine tall tree.

—*torquata*. **EUCA-281. 35¢**
Reddish orange fls; leathery lvs.

—*viminialis*. **EUCA-310. 50¢**
Ribbon Gum. Good shade tree for parks; mountain; 80 ft.

Where number of seeds to lb. or oz. is given, this is approximate figures.

EUCOMIS.

(YEW-kom-iss)

Liliaceae. S. Af. bulbous plants with basal leaves in rosettes. Easy in warm climates or a GH subject in N; sow seed during spring in flats or seed bed; good germination.

—c. *mosa*.

Pineapple Flower. 2 ft; fls green; lvs are ornamental; resembles green Pineapple.

—*punctata*. **EUCO-2P. 40¢**
Pineapple Flower. Greenish fls; lvs 2 ft. long, 3" wide, spotted brown beneath; S. Af; GH or (VIII).

—*undulata*.

Greenish fls, $\frac{3}{4}$ " ac in dense racemes. **EUCO-8. 30¢**

EUGENIA.

(yew-JEEN-ee-ah)

Myrtaceae. Tropical evergreen shrubs and trees. They are favorite subjects in the far South for their ornamental flowers and foliage as well as edible fruits; easily grown.

—*myrtifolia*: see *E. paniculata v. australis*.

—*paniculata australis*. **EUGE-26A. 40¢**
A more bushy small tree; white fls; fruits excellent for jelly; Australia.

—*Smithii*. **EUGE-20. 40¢**
Australian tr; small white fls in terminal panicles. 100 seeds \$1.00; July-Sept delivery.

—*uniflora*. **EUGE-33. 35¢**
Surinam Cherry. Sh. to 25 ft; white fragrant fls; fruit edible; TSH.

EULALIA japonica: see *Miscanthus sinensis*. A hardy ornamental grass.

EUONYMUS.

(yu-ON-ee-mus)

Spindle Tree. Celastraceae. Shrubs and small trees with attractive foliage and showy fruits in the fall; easily grown and not particular as to soil. Best to sow seed as soon as harvested in the fall to germinate in the spring; decid. sp. can be sown in Feb. and containers plunged out doors till next March when they can be brot into the GH.

—*alatus*. **EUON-1. 50¢**
Deciduous sh; 8 ft; purplish fruits; China. **Lb. \$2.00.**

—*atropurpureus*. **EUON-3. 30¢**
Wahoo; Burning Bush. Celastraceae. Shs to 20 ft; scarlet fr; hardy; (IV).

—*intermedia*. **EUON-3T. 30¢**
With bright red fruits.

—*Bungeanus*. **EUON-5. 40¢**
Decid sh to 15 ft; fruits are very pretty; (IV); China.

—*europaeus*. **EUON-8. 50¢**

—*japonicus*. **EUON-15. 30¢**
Evergreen sh; 15 ft; (V). **Lb. \$2.25.**

—*Sieboldiana*. **EUON-39. 35¢**
Rather scarce; Japan. **Oz. 80¢.**

—*yedoensis*. **EUON-40. 40¢**

—*yedoensis*. **EUON-40. 40¢**
Deciduous sh to 10 ft; Japan; pink frs.

—*Mixed*. **EUON-X. 25¢****EUPTELEA.**

(yew-TELL-ee-uh)

Trachodendraceae. Decid. shs and trs native of Asia; moist places but well drained.

—*japonica*. **EUPL-3. 30¢**
Oz. \$2.00.

EUPATORIUM.

(yew-pat-TOH-ee-um)

Thoroughwort; Boneset. Compositae. A large genus with ornamental greenhouse subjects; some are for the border or wild garden. They are all easily grown from seed.

—*cannabinum*. **EUPT-9. 25¢**
Hemp Agrimony. HA; pale purple heads; 6 feet.

—*Lasseauxii*. **EUPT-20. 25¢**

Heads white, changing to rose; 2 ft; TA. —*maculatum*. **EUPT-26. 25¢**

Joe-Pye-Weed. Pink or purple fl-heads; 8 ft; TA.

—*purpureum*. **EUPT-32. 25¢**
Grows to 10 ft; lvs in whorls; purple fls.

—*rugosum*. **EUPT-34. 40¢**
White Snake-root. White heads; 4 ft; HP.

—*sordidum*. **EUPT-42. 50¢**
Shrub; violet heads; Mexico; (X).

—*urticaefolium*. **Plants only**
American Ageratum. Decid; 2-3 ft; white

fl-heads; woods, semi shade. **PLANTS: 75¢ each; 3 for \$1.75.**

—*Mixed Eupatoriums*. **EUPT-X. 20¢**

EUPHORBIA

Spurge. Euphorbiaceae. It is one of the most diverse of all plant genera. There are at least 1,000 species, many good succulents. They thrive in a porous but not too rich a soil. Many species are being reclassified; for other succulents. Euphorbias are lime haters; tap water should not be used in their beds, only rain water; a temperature of 95 F. is good in germinating seed. (u FORB-be-ah); use great care in damaging these plants as they 'bleed' very easily when damaged; in some sp. the milk is poisonous; most sp. do their growing during the winter months; to save seed cover with bag as they explode when ripe.

—*Burmanniei*. **EUPH-15. 50¢**

—*epithymoides*. **EUPH-40. 25¢**
(E. polychroma) A showy plant with pretty bright yellow bracts; 2 ft; HP. **Oz. \$5.00.**

—*Fraseri*: see *rugosum*.

—*heterophylla*. **EUPH-67. 25¢**
Fire-on-the-Mountain. Annual Poinsetta. start indoors; 3 ft; TA. $\frac{1}{2}$ Oz. \$1.25.

—*Lathyrus*. **EUPH-75. 30¢**
Caper Spurge; Mole-Plant; 3 ft; HA.

—*Livingstonia*. **EUPH-80. 35¢**
Collected in S. Rhodesia.

—*marginata*. **EUPH-82. 20¢**
Snow-on-the-Mountain. Leaves margined white; 2 ft; HA. **Oz. 80¢.**

—*mauritanica*. **EUPH-84. 50¢**

—*Montieri*. (Marlothiana) **EUPH-87. 50¢**

—*Myrsinites*. **EUPH-90. 25¢**
Decumbent; RG; stems end in golden flower heads; HP. $\frac{1}{4}$ Oz. \$1.20.

—*platyphyllus*. **EUPH-113. 50¢**

—*polychroma*: see *E. epithymoides*.

—*pulcherrima*. **EUPH-122. 50¢**
Poinsetta. Shrub to 10 ft; bright red fls; (X); they will not flower if the do not get a full 12 hours of darkness daily; even very short periods of light at night will affect them. 100 seeds \$9.00.

—*rugosum*. **EUPH-128. 35¢**
White Snakeroot. White heads; 4 ft; HP.

—*sikkimensis*. **EUPH-132. 35¢**

—*splendens*. **EUPH-135. 25¢**
Crown-of-Thorns; Calveary Clover. To 4 ft; bracts bright red; GH; HA.

—*Tirucallii*. **EUPH-148. 50¢**

—*variegata*: see *E. marginata*.

—*Euphorbia Mixed*. **EUPH-X. 25¢**

EURYA.

(yew-ree-uh)

Theaceae. Ev shs and trs; grown in GH or South; culture like Camellia.

—*japonica*. **EURY-5. 30¢**
(E. latifolia) Small greenish white fls. **Oz. 6¢.**

—*ochracea*. **EURY-9. 30¢**
(Cleyera japonica) Creamy white, fragrant fls; red berries; Japan.

EUSCAPHIS.

Staphyleaceae. One deciduous shrub native of Japan and China.
—*japonica*.

EUSC-1. 50¢**EUSTOMA.**

(YEW-stom-uh)

Gentianaceae. N. Amer. glaucous plants; fls white or blue, bell-shaped, in panicles or solitary.

—*russellianum*.**EUST-1. 35¢**

Blue Gentian. HB; 2 ft; mass of 3" bell-shaped dark to pale blue fls; June till frost; moist place; fine cut; treat as HA; showy but not often seen; best sown in June, treating as biennial; pot seedlings and winter in cold frame. 1/4 Oz. \$1.00.

EUSTREPHUS.

(EU-stree-fus)

Liliaceae. Australian vine-like plants; easy; GH or far South.

—*latifolius*.**EUSP-4. 40¢**

White or blue fls; fr orange color; Aust.

EUTUCA: see Phacelia.**EVODIA.**

(ee-VOH-dee-uh)

Rutaceae. Rhus-like shs and trs native of the far E. and Australia; fls in cymes or panicles.

—*frankii*.**EVOD-3. 50¢****EXACUM.**

(EKS-ak-um)

Gentianaceae. Annuals, biennials and perennials, summer blooming; fls white, lilac or purplish blue, flat petalled in branching clusters at the top of leafy stems. Not hardy in the N but grown as a pot plant in the GH; sow seeds in August for indoor growing; hardy in the South.

—*affine*.**EXAM-1B. 50¢**

A new dark lavender; fine dwarf for pot-plant; fragrant fls.

—*teres*.**EXAM-6. 30¢**

Blue flowers; 4 ft; India.

EXOCARPUS.—*cupressiformis*.**EXOP-4. 30¢****EXOCHORDA.**

(ex-soh-KORD-uh)

Pearl Bush. Rosaceae. Hardy deciduous Asian shrubs; very ornamental and hardy in the North. They thrive in a sunny place and well drained soil.

Seed can be held in sand, indoors, till spring and then started in flats in ordinary seed compost

—*racemosa*.**EXOR-6. 35¢**

(grandiflora) 10 ft; fls 2" ac; China.

FAGARA: see ZANTHOXYLUM.**FAGUS.**

(FAY-gus)

Fagaceae. Beech. Very showy ornamental trees, as well as valuable timber; nuts edible; loamy limestone soils; sow seed in fall or stratify for spring planting; seed scyarc.

—*japonica*.**FAGU-7. 50¢**

Japanese Beech. Oz. \$1.00.

—*crenata* v. gr. fl.**FAGU-3G. 50¢**

Oz. \$1.00.

—*sylvatica*.**FAGU-10. 75¢**

European Beech. Oz. \$1.00.

FAUCARIA.

(faw-KAY-ree-uh)

Rosette-forming plant with gapping jaw-like lvs; large yellow fls; very attractive; grows April-October.

—*acutipetala*.**FAUC-1. 50¢****FARSETIA.**

(far-SET-ah)

Erect woolly annuals and perennials or sub-shrubs with white, pink or yellow fls in spikes or racemes; sometimes listed under *Fibigia*. (Cruciferae).

—*clypeolata*.**FARS-2. 50¢****FATSIA.**

(FAT-see-ah)

Araliaceae. A single evergreen shrub native of Japan and grown in the GH; it is an extra nice foliage plant.

—*japonica*.**FATS-1. 50¢**

Aralia Sieboldii Ev sh 20 ft; grown in the GH; (VIII); whitish fls in umbels; new seed ready in April; price variable. 500 seeds \$1.50; lb. \$6.00.

—*Moseri*.**FATS-1M. 50¢**

Dark green foliage and dwarf habit. Fresh seed March-April; GH.

—*papyrifera*: see *Tetrapanax papyriferum*.**FEIJOA.**

(fay-SHOH-ah)

Myrtaceae. Showy S. Amer. trs and shs, doing well in dry climates, and standing several degrees of frost; sow seeds in pans of silver sand and redwood sawdust; transplant to permanent place when seedlings are 4" high.

—*Sellowiana*.**FEIJ-4. 50¢**

Very pretty fls; 18 ft; (X); fr. edible.

FELICIA.

(fe-LISH-ee-ah)

Compositae. Af. annuals and sub-shrubs; the latter make nice plants in the GH and the annuals nice garden plants. They have attractive daisy-like fls with blue or white rays and yellow disks.

—*adfinis*.**FELC-1. 35¢**

Blue flowers; 6 inches.

—*amelioides*.**FELC-3. 25¢**

Blue Daisy To 3 ft; sky-blue fls on long spikes; S. Af; (Agathaea coelestia). Oz. \$1.50

—*urea*.**FELC-2. 25¢**

This comes from N. Z. as *Agathaea azurea*.

—*Bergeriana*.**FELC-4. 30¢**

Kingfisher Daisy. Brilliant blue, daisy-like fls with a golden center; fine for RG or edging; 6"; HHA. 1/2 Oz. 70¢.

—*echinata* v. *Paralicia*.**FELC-6P. 35¢**

Erect bush with bright blue fls; 10"

—*hyssopifolia*.**FELC-8. 30¢**

Rays lavender-mauve, golden disk; 12"

TA.

—*stundifolia*.**FELC-11. 35¢**

Blue fls with yellow disk; 6"

—*colorata*.**FELC-14. 35¢**

Pinkish with purple zone, yellow disk; 9"

FERN SPORES AND PLANTS

The following list of ferns will be more fully described in the next issue. A few of the species can be reclassified as the genera are not entirely agreed upon as yet. Seed are not easily agreed upon as yet. Seed delivery, so do not expect them to be handled like Zinnias.

There are several good kinds offered for the greenhouse and as a rule seed is available most of the year. When ordering plants, add 25¢ extra for postage when your order is less than \$1.00; the initial postage charge is too high for single plant orders; of course, plants are shipped in spring and fall months.

PLEASE DO NOT USE COMMON NAMES

FERN SPORE CULTURE: First, fern spores are not difficult to germinate. Sow thinly on the surface of moist humus-rich soil, in pots or pans. Sterilizing the soil is best but wet the soil with strained water washed from rich humus soil. Keep soil moist but only by immersion, never by overhead watering. Gentle warmth and darkness tends to start germination; cover pans with glass; wipe condensation off every morning.

Growth is at first indicated by green patches on surface (note by good reading glars). It is at first tiny, flat plants with sort of heart-shaped leaves, which really is the plant itself, and not a leaf. Unlike seeds, which are the result of fertilization, the fern spore has not been fertilized, and this now takes place on the underside of the first growth. From this union an egg is produced, which develops into the fern proper.

When these young plants are large enough to be handled, they must be pricked off separately into small pots to be grown on.

In growing the various species offered, consider their uses; some are strictly tropical and then can only be grown under glass in the North but the hardy species can be transplanted out side as soon as established in pots.

CAUTION: Spores are not available at all times of the year and order are back-ordered, to be sent when fresh spores come in.

NOTE: The following Genera of Fern are listed in their proper places in the Catalog and see in following pages:

CCATHEA.	ONOCLEA.
CHEILANTHES.	ONYCHIUM.
CIBBOTIUM.	OSMUNDA.
CYCLOPHOZUS.	PELLEA.
CYTODIUM.	PHYLLITIS.
CYSTOPTERIS.	PITYGLOMMA.
DARWINIA.	POLYPODIUM.
DICKSONIA.	POLYSTICHUM.
DIPLOZOM.	PTERIS.
DRYOPTERIS.	PTERETIS.
LYCOPODIUM.	PTERIDIUM.
LYCOPodium.	SCOLOPENDRIUM.
MICROPIA.	SELAGINELLA.
MICROSORIUM.	WOODWARDIA.
NEPHROLEPSIS.	

NOTE: I can supply large clumps if desired or if you wish to make any large planting. I can quote special prices. They are not difficult to transplant to a woodsy soil.

100 NATIVE FERNS: (Our Selection) for shade or part shade. Postpaid. \$20.00

These are easily transplanted and here in Michigan, we have 100% stands with fall planting.

FENNEL: see **FOENICULUM VULGARE.**

FEROCACTUS. (fer-oh-KAK-tus)
Cactaceae. Grow same as Echinocactus.

—**latispinus.** FE O-31. 45¢
—**Herrerae.** FERO-25. 50¢
—**quiocobensis.** FE O-20. 50¢
Gloabular; rose to purple, bell-shaped fls; linc long; Mexico.
—**macrodiscus vaxacensis.** FERO-35A. 50¢
—**robilis.** FE O-38. 50¢
Gloabular; 10"; pink campanulata fls, 2" long; Mexico.

FESTUCA.

Fescus. Gramineae. Perennial grasses, mostly tufted, with spikelets in narrow panicles; some are suited for pastures, others for lawn and ornamental grasses.

—**ovina v. glauca.**

Blue glaucous foliage; 2 ft; HP. **FEST-8G. 25¢**

FEVERFEW: see **Chrysanthemum Parthenium.**

FIBIGIA: see under **FARSETIA.**

FICUS.

(FY-KUS)

Fig. Moraceae. Some are grown in the (X) and (XI) zones and some make good house plants.

—**benjamira.**

Banyan Tree of India. Largest tree of genus; (X). 100 seeds 90¢. **FIC-7. 40¢**

—**capensis.**

S. Af. Wild Fig. Ornamental fruit on the old wood; 0 ft. **FIC-10. 50¢**

—**elastica.**

Indian Rubber Tree. Pretty ornamental thick glossy lvs; has berries. 100 seeds 90¢; 1,000, \$2.75. **FIC--20. 35¢**

—**macrophylla.**

Moreton Bay Fig. Attractive conservatory plant with glossy leaves. Oz. \$1.75. **FIC-33. 50¢**

—**religiosa.**

Peepul Bo-Tree. Sacred tree of India. 1/2 Oz. 95¢. **FIC-52. 50¢**

FILIPENDULA.

(fil-i-PEN-deu-lah)

Rosaceae. Meadow-Sweet. Perennials of N. temp zone; similar to Spirea.

—**multijuga.**

Glabrous basal lvs; rose to white fls; Japan (VI). Oz. 90¢. **FILI-8. 35¢**

FIRMIANA.

(fir-me-AN-ah)

Sterculiaceae. Warm region trees and grown in the South as shade trees.

—**simplex.**

Chinese Parasol Tree; Phoenix T. (F. plataniifolia, Sterculia p.); a good street tree in far S; (IX). Oz. 50¢; lb. \$2.50. **FIRM-1. 35¢**

FOENICULUM.

(fee-NIK-yew-lum)

SWEET FENNEL. Umbelliferae. Grown for its leaves and aromatic seeds; sow in early spring.

The common trade names are given here:

—**Sweet or Florence.** **FOEN-1F. 25¢**

HA; but treat as HBB; short stems swollen at base. Oz. 50¢; lb. \$2.50.

—**S. cian.**

—**Giant of Naples.** **FOEN-1S. 25¢**

Oz. 40¢; lb. \$2.00. **FOEN-IN. 20¢**

—**Bologna.**

Oz. 40¢; lb. \$2.00. **FOEN-1B. 25¢**

—**vulgare.**

This is the common Sweet Fennel; HP; tall shining stems; feathery lvs Oz. 50¢; lb. \$1.90. **FOEN-1. 25¢**

FORGET-ME-NOT: see **Myosotis.**

FRAILEA.

Cactaceae. Small low growing S. Amer. Cactus; shade during summer; no water during winter.

—**colombiana.**

Yellow flowers. **FRAI-9. 60¢**

—**Grahiana.**

Gloabular; pale yellow fls with red throat 1 1/2" long; Paraguay. **FRAI-8. 50¢**

FRAGARIA: see **Duchesaea.**

FRANKLINIA: see **Gordonia alataamaha.**

FRASERA.

(fray-ZER-ah)

Columbo. Gentianaceae. N. Amer. plants with white, yellowish or bluish fls in panicle clusters.

—**Parryi.****FRAS-14. 30¢**

Greenish white fls; 3 ft; S. Calif.

FRAXINUS.

(FRAX-in-us)

Ash. Oleaceae. Valuable street and shade trees; do best where soil is moist; best to stratify seed or sow in late fall, when they germinate the following two springs; best to remove wings; sow in pans or flats of loamy soil and place in warm GH as soon as possible after gathered.

—**americana.****FRAX-1. 30¢**

White A. Stratify seed above 40 Fah. sow early in spring; many seeds germinate the 2nd year; soaking seed in soft water 8-10 days will help germination. Oz. 50¢; lb. \$2.50.

—**excelsior.****FRAX-14. 30¢**

European Ash. Oz. 40¢; lb. \$1.00.

—**australis.****FRAX-14A. 25¢**—**pendula.****FRAX-14P. 30¢**

Oz. 90¢; lb. \$1.50.

—**mandshurica.****FRAX-19. 50¢**

Tr to 100 ft; N. E. Asia. Oz. 90¢; lb. \$5.00.

—**oregona.****FRAX-26. 30¢**

Tree to 75 ft; Wash; (VI). Oz. 45¢; lb. \$3.00.

—**ornus.****FRAX-27. 30¢**

Flowering Ash. Tr to 60 ft. Oz. 50¢; lb. \$1.50.

—**pennsylvanica lanceolata.****FRAX-31L. 30¢**

Red Ash. Lb. 1.25.

FREESIA.

(FREE-zee-ah)

Iridaceae. A very popular flower for the GH; flowers in 10 weeks after planting bulbs making choice cut-flowers in late winter or early spring. They can be grown out doors in the far South where they should be planted in the far South where they should be planted the second year.

Can be planted to Dec 1st in GH but better earlier; best in flats or bench; never let dry out; provide some support so stems are straight.

—**Luzi.****FREE-2. 50¢**

New type in beautiful new shades.

—**Hybrids.****FREE-2H. 30¢**

(Ragioniere) Best European strain. Oz. \$4.00.

—**SUPER GIANTS.****FREE-2S. 75¢**

Blend of white, rose-red, yellow-orange, lilac-purple; special GH strain. ½ Oz. \$5.00.

—**pura grandiflora.****FREE-5P. 35¢**

A pure white; very early flowering.

—**Marie Josee.****FREE-2M. 30¢**

Nice red.

—**refracta Buttercup.****FREE-5B. 30¢**

Pure buttercup-yellow; 18". ½ Oz. \$3.00.

—**Tubergeni Hybrids.****FREE-6H. 30¢**—**Mixed.****FREE-X. 30¢****FREMONTIA.**

(free-MON-te-ah)

Sterculiaceae. Two evergreen shrubs with showy yellow fls without petals, followed by capsular fruits; dry soil and not hardy in N.

—**mexicana.****FREM-2. 50¢**

Flannel Bush. 10 ft; fls 2" ac.

FRITILLARIA

Liliaceae. Bulbous plants with drooping bell-shaped fls often checkered in greenish, purple or brown. They can be grown from bulbs which are offered in the summer or they are easy from seed. (frit-LAY-ri-ah)

—**atropurpurea.**

Purple fls spotted yellowish green; 18".

—**cirrhosa.****FRIT-4. 40¢**

Yellowish fls checkered purple; 2 ft; HP.

—**imperialis.****FRIT-11. 25¢**

Purplish brick-red or yellow-red fls; 4 ft.

—**Orange Type.****FRIT-11G. 30¢**—**rubra.****FRIT-11R. 25¢**

Red for; 3 ft; HP.

—**meleagris.****FRIT-16. 30¢**

Flowers checkered with purplish or maroon; HP.

—**pubida.****FRIT-22. 30¢**

Yellow Bells. Earliest in spring; 6"; HP.

—**recurva.****FRIT-26. 25¢**

Scarlet checkered with yellow; 2 ft; HP.

—**Fovlei.****FRIT-28. 30¢**

Greenish yellow, netted dull purple; 2 ft.

—**Mixed.****FRIT-X. 25¢****FUCHSIA.**

(FEW-smuh)

Onagraceae. Tender plants with very pretty flowers; they make excellent house plants or can be grown in a cool GH. In the far South they are grown out doors.

Germinating seed: Soak seed in soft water 3-4 ways or in a dilute acid condition for 8 hours; sterilize soil; put in water tight pans and cover with 1" layer of sand; both must be damp; press seed into sand till barely covered; cover pan (dark); 70-75 degrees bottom heat; air container daily; germination 1-13 weeks; prick seedlings into 2" pots and keep surrounded with wet peat moss.

—**arborescens.****FUCH-1. 50¢**

To 18 ft; fls pink to purplish, erect terminal panicles; Mexico.

—**boliviana.****FUCH-3. 50¢**

To 30 ft; fls 3" long, sepals pale rose, petals rich rose; Bolivia.

—**rosea.****FUCH-28. 50¢**

Sh: Chile; purplish violet corolla.

—**thymifolia.****FUCH-35. 50¢**

To 3 ft; purplish red fls, ½" long; Mex.

GAILLARDIA

Blanket Flower. Compositae. Annuals, biennials and perennials with showy solitary flowers with red or yellow rays. They are excellent for cut-flowers or make showy displays in the border. (gay-LAHR-di-ah)

G. A. ISTATA: Hardy perennials; easily grown anywhere. All varieties: ¼ Oz. 50¢.

—**Bremen.****GAIL-1B. 20¢****GAILLARDIA — Monarch Strain**

Coppery scarlet with yellow tips; pretty. ¼ Oz. 50¢.

—**Burgundy.****GAIL-1N. 20¢**

A rich wine-red; very showy. ¼ Oz. 50¢.

- Goblin.** **GAIL-1G. 20¢**
A dwarf compact variety; deep red with a golden border. 1/4 Oz. 50¢.
- Monarch Strain.** **GAIL-1M. 20¢**
Very large flowers in a wide color range.
- Portia Hybrids.** **GAIL-1P. 25¢**
Scarlet fls intensified with bronze-gold tips; semi-double.
- Sun.** **GAIL-1SN. 25¢**
Orange-yellow; very nice. 1/4 Oz. 70¢.
- Superbum.** **GAIL-1S. 20¢**
Large flowered variety, mixed colors.
- Yellow Queen.** **GAIL-1Y. 20¢**
Pure golden yellow; pretty. 1/4 Oz. 50¢.
- Tangerine.** **GAIL-1T. 20¢**
Beautiful orange; true.
- The Dazzler.** **GAIL-1D. 20¢**
Intense golden yellow with maroon-red zone. 1/4 Oz. 50¢.
- Ble-d of Above.** **GAIL-1X. 20¢**
1/4 Oz. 70¢. Any of above.
- G. PULCHELLA:** Also listed as *G. picta*, *G. Drummondii*. Hardy annuals growing to 18"; they are grown mainly for cutting, germinate in 10 days at 60-65°F.
- Indian Chief.** **GAIL-7C. 20¢**
Pretty deep coppery scarlet with dark brown center. 1/4 Oz. 40¢.
- Lorenzia-a.** **GAIL-7Z. 20¢**
Double disk fls; very showy. 1/4 Oz. 40¢.
- Tetra.** **GAIL-7T. 20¢**
A blood-red; showy.
- Single Mixed.** **GAIL-7X. 20¢**
- New Giant Doubles.** **GAIL-7DX. 25¢**

GALEGA. (gah-LEE-gah)

Leguminosae. Bushy perennials with blue white or purple pea-like fls in thick clusters or racemes; excellent cut-flowers; seed can be planted where they are to grow.

- officinalis.** **GALG-2. 25¢**
Goat's Rue. White, lilac and rose fls; 3 ft; HP.

GALPHIMIA glauca: see *Thyallis glauca*.

GALTONIA. (gol-TOH-nee-uh)

Liliaceae. S. Af. bulbous plants growing 2-3 ft. with flowers much like Hyacinths but in open racemes; they are hardy up in the (VII) zone.

- candicans.** **GALT-1. 25¢**
Giant Summer Hyacinth. White; 3 ft; TBb; treat like *Gladiolus* in storage. Oz. \$1.25.

GAMOLEPSIS. (gam-MOL-ep-is)

Small shrubs and plants native of S. Af. and having yellow solitary flower heads of ray and disk flowers. Grown for the fls and for edging; tender.

- tagetes.** **GAMO-11. 25¢**
Nest and compact little plant bearing quantities of bright golden yellow daisy-like fls; 8"; HA; bedding or edging; easy.
- speciosa.** **GAMO-10. 35¢**
Brilliant orange; 8".

GARDENIA. (gar-DEEN-ee-ah)

Rubiaceae. Popular shrubs grown for their pretty fls, both out doors in the S or in the GH in the North.

- jasminoides.** **GARD-4. 50¢**
(*G. florida*) Cape-Jasmine. Ev. sh to 6 ft; fls white, 3" ac; China.
- Thunbergii.** **GARD-7. 40¢**
To 10 ft; fls white, fragrant, 4" ac; S. Af.

C. S. means seed clean from the pulp;

GAULTHERIA. (gaw-THÉE-re-ah)

Ericaceae. Evergreen woody plants of the Heath Family having small white, blue, red or black fls followed by fruits. Many are very dwarf and suited for the RG. Sandy soil, plenty of moisture, best in light shade and an acid soil; not real hardy in N without winter protection; seeds sown during Feb. in peaty soil, lightly covered, gives best results.

- antipoda.** **GAUL-3. 30¢**
White or pink fragrant fls; sh to 5 ft; N. Z.
- Hookeri.** **GAUL-6. 40¢**
A rare species from the Himalayas.
- oppositifolia.** **GAUL-13. 50¢**
A really attractive shrub covered with striking Heath-like fls in early spring; 3 ft; (IX); N. Z.
- perplexa.** **GAUL-16. 30¢**
Prostrate shrub to 3 ft; N. Z.
- procumbens.** **GAUL-17. 40¢**
Winter-berry; Checkerberry; Teaberry. Creeping; white fls; May-Sept; scarlet fr; Canada to Ga; (III); pH 4-5. **PLANTS: 45¢ each; 3, for \$1.25.**
- frichophylla.** **GAUL-21. 30¢**
Pink fls; prostrate, shrubby; RG; not easy but good.
- rupestris.** **GALT-20. 50¢**
Erect, rarely procumbent, sh with smaller lvs; white fls; pink or red br; 2-4 ft; (V); N. Z.
- Mixed.** **GAUL-X. 30¢**

GAURA. (GAU-rah)

Oragraceae. N. Amer. perennials; rose or white fls in spikes or clusters. Grown in the border or wild garden.

Sow seeds with fuzzy pointed end just above soil surface; germs. 4-6 wks; 50% extra good; best started in Jan; slightly acid soil best.

- Lindheimeri.** **GAUR-2. 30¢**
A graceful plant with long sprays of white fls blooming over a long season; July-Oct; 3-4 ft; good cut; TP but grow as HHA; space 20".
- oclorata.** **GAUR-3. 30¢**
- parviflora.** **GAUR-4. 40¢**
Pink fls, 1/8 inch ac, in long spikes; S. D. to Mex; 5 ft; HP.

Please do not order by the common name!

GAZANIA. (gah-ZAY-ne-ah)

(Meridiana) Compositae. White, orange and yellow fls opening in the sunshine; disks dark; border or for edging.

- leucolaena.** **GAZ-2. 40¢**
Trailing plant; yellow fls; gray lvs.
- longiscarpa.** **GAZ-1. 30¢**
A graceful bush with long sprays of Daisy-like golden, yellow fls spotted brown around center, 2" ac; July-Oct; TP, grow as HHA; 6-9"; space 9".
- pinnata.** **GAZ-7. 35¢**
Orange fls; 6".
- New Hybrids.** **GAZ-3H. 50¢**
Many new colors. 1/4 Oz. \$1.50.
- splendens, Mixed.** **GAZ-8X. 30¢**
Rays orange with black and white spot at base; 18"; 100 seeds to oz. 1/2 oz. \$3.50.

GENIOSTOMA.

Loganiaceae. Shrubs native of Pacific Islands; fls small, in axillary clusters or cymes.

- ligustrifolium.** **GENI-5. 40¢**
Greenish white fls; 12 ft; N. Z.

GENISTA.

(jen-NIST-ah)

Broom. Leguminosae. Ornamental shrubs with yellow or white fls in racemes, followed by flattened pods. Thrives in dry locations and mild climates; not hardy in the North.

—*aethiensis*.**GENS-1. 40¢**

Golden yellow; fragrant; July-Aug; Sicily; 15 ft; HHSH.

—*canariensis*: see *Cytisus*. Pretty pot plant. fragrant; see *Cytisus fragrans*.

—*hispanica*.**GENS-11. 50¢**

Spanish Broom. Golden yellow fls; in Florida.

GENS-12. 50¢

Flowers in terminal heads; 1½ ft; HP.

—*jurcea*; see *Spartium juncea*.**GENS-17. 30¢**

White fls; 10 ft; (IX); 200 sd. to oz. **GENS-18. 50¢**

terminal heads; May-June; 2 ft; HP.

—*scoparia*: see *Cytisus scoparius*.

GENS-23. 50¢

Yellow fls in terminal racemes; June-

July; 1 ft; HP.

GENS-38. 30¢

Dyer's Greenwood. 3 ft. **Oz. 75¢.**

—*Genista Mixed*. **GENS-X. 25¢**

GENTIANA

Low growing annuals and perennials, usually with blue or purple fls, occasionally white or yellow. They are excellent rockery plants. Best soil mixture recommended: 2 part loose bulk loam, 1 part coarse sand, 1 part bulk course peat to which add to each bushel of the above, 1½ oz. super-phosphate and ¾ oz. ground limestone. Leave lime out for Himalaya species; no manure or leaf mould. Seed containers should be kept shaded, never allow the sun to reach the seed; even when germinating; seed may take a year to germinate and thus sowing in coffee cans should be tried; C-24; (JEN-shan-ah).

—*caerulea*.**GENT-1. 35¢**

Dark blue, spotted inside; 4"; HP; success is mainly a cool root; try planting North of a stone; light application of lime good; try oyster shells when planting. Success is mainly a cool root; try planting N of stones; light applications of lime good. ½ oz. **\$2.25.**

—*caerulea*.**GENT-7. 35¢**

Purplish blue; 2 ft; HP. **PLANTS: 40¢ each; 3 for \$1.00.**

—*auriculifolia*.**GENT-8. 50¢**

Blue spotted with green; Alps; HP.

—*caerulea*.**GENT-7A. 50¢**

Both rare and beautiful form.

—*candidum*.**GENT-22. 50¢**—*caerulea*.**GENT-24. 50¢**

Very much like *G. acaulis*.

—*caerulea*.**GENT-25. 50¢**

Dark blue fls; 10"; HP.

—*caerulea*.**GENT-31. 50¢**

Blue, white throat, yellowish-white band; 3"; HP. sow in fall to March when they germinate in 3 weeks.

—*Fetisowii*.**GENT-32. 50¢**

Deep blue; 1½" long; terminal clusters.

—*gracillipes*.**GENT-42. 50¢**

Rosette forming; fls purplish blue; 6"; China; HP.

—*Kochiana*.**GENT-47. 50¢**

Rosette forming; 6"; blue, white, rose; HP.

—*linearis*.**GENT-50. 40¢**

(*Dasystephana linearis*) 2 ft; HP; blue fls

—*lutea*.**GENT-53. 50¢**

Yellow fls; 1" long in dense umbel-like

cymes; 6"; HP. ½ Oz. **\$2.00.**

—*Olivieri*.**GENT-67. 35¢**

(*G. dahurica*) Dark blue fls in umbel-like

cymes; Asia; (IV); HP.

—*caerulea*.**GENT-66. 40¢**

Deep blue fls; low rosette per; RG; Nepal

—*porphyrio*.**GENT-71. 35¢**

Bright blue fls 2" long; N. J.; sandy acid meadows; 12"; HP.

—*purpurea*.**GENT-96. 35¢**

Purple fls; 2 ft; HP.

—*Saponaria*.**GENT-91. 35¢**

Blue fls; 30"; HP.

—*septemfida*.**GENT-98. 50¢**

Nice blue fls; stems 10"; July-Aug; HP.

1/8 Oz. **\$4.00.****GENT-100. 50¢**

—*sikkimensis*. Mat-forming; 6"; blue, white throated; China; HP.

—*tibetica*.**GENT-113. 50¢**

Yellowish white, tinted blue; 18"; 18 in; Himalayas.

—*vera*.**GENT-118. 50¢**

Tufted dark blue; 3"; HP; sow seeds in the fall and up to the end of Jan when they naturally will germinate in late Feb and March; any other time, the seed will just hold over till the next Feb or March!

—*Mixed Gentians*.**GENT-X. 30¢****GERANIUM.**

(gee-RAY-nee-um)

Crane's-bill. Geraniaceae. Annuals and perennials for the border or rockery; set the perennials out in the spring. CAUTION; these are NOT the common greenhouse Geraniums—they belong to the Pelargoniums.

—*collinum*.**GE N-11. 30¢**

Purplish violet; 18"; HP.

—*heicum*.**GERN-23. 25¢**

Purple fls, 1½" long; 1½ ft; HP.

—*maculatum*.**GERN-29. 35¢**

Wild Geranium. Decid: 1-2 ft; pale pink-purple fls; Ap-Aug; shade loving. **PLANTS: 50¢ each; 3 for \$1.25.**

—*nepalense*.**GERN-30. 50¢**

Rose-purple fls; decumbent to 18"; HP.

—*patensis* Silver Queen.**GERN-38. 50¢**—*pusillum*.**GERN-40. 40¢**

Prostrate; blue-purple fls; HA: Himalayas

—*sanguineum*.**GERN-46. 25¢**

Reddish purple fls; 18"; HP.

—*sibiricum*.**GERN-48. 50¢**—*Mixed Geraniums*.**GERN-X. 25¢****GERBERIA.**

(jer-BEER-ee-ah)

Transvaal or Barbertain Daisy. Compositae. Herbaceous perennials with solitary orange pink, or yellow heads in rays; they are not hardy in the far N.

—*Double Flowered Mixed*. **GERB-2D. 50¢**

Giant flowered, best strain. 100 seeds

\$2.00; 500. \$6.00. (Fresh Seed)—*Giant Single Mixed*.**GERB-9S. 50¢**

100 seeds \$1.50; 500, \$4.00. (Fresh Seed)

GESNERIA.

(jes-NEE-ri-ah)

—*Red Hybrids*.**GESN-17. 50¢**

Beautiful German hybrids.

—*umbellata* Texa.**GESN-1T. 50¢**

Scarlet fls; showy pot plant.

GEUM

Avens. Rosaceae. Erect perennials easily grown and excellent for cutting or for beds, border or rockery; sow seeds in open ground early in the spring. (JEE-um).

—*chloense* Fireball.**GEUM-10F. 20¢**

Bright scarlet; 2 ft; HP.

—*Gold Ball*.**GEUM-10G. 20¢**

Rich golden yellow variety; 2 ft; HP.

—*Mrs Bradshaw*.**GEUM-10B. 20¢**

Rich double scarlet; 2 ft; HP.

—*Scarlet*.**GEUM-10R. 20¢**

- Large double flowers.
 —**Lady Strathedon.** **GEUM-10S. 20¢**
 Double golden yellow variety; 2 ft; HP.
 1/2 Oz. \$1.20.
 —**Mixed Chiloense Var.** **GEUM-10X. 20¢**
 —**coccineum.** **GEUM-11 25¢**
 Bright red fls, 1" ac; HP.
 —**modanum.** **GEUM-24. 25¢**
 Golden yel. fls, 1 1/2" ac; 1 ft; good in
 pastures or stony grounds or banks; HP.
 —**Rinstrjom.** **GEUM-10.M. 40¢**
 Coppery orange fls; 18"; very hardy; good
 —**syriacum.** **GEUM-36. 50¢**
 Yellow fls, 1" ac; 2 ft; HHP.
 —**triflorum.** **GEUM-38. 35¢**
 Purplish fls, 3/4" ac; 1 1/2 ft; HP.
 —**urbanum.** **GEUM-40. 25¢**
 Yellow fls, 1/2" ac; 2 ft; HP.
 —**Mixed Geum.** **GEUM-X. 20¢**

GIBBAEUM.

Watering should always be from below
 to prevent rot.

- album.** **GIBB-2. 50¢**
 —**dispar.** **GIBB-5. 50¢**
 —**Heathii.** **GIBB-12. 50¢**
 —**Nelii.** **GIBB-19. 50¢**
 —**perviride.** **GIBB-27. 50¢**
 —**petrense.** **GIBB-27. 50¢**
 —**pubescens.** **GIBB-31. 50¢**
 —**Shandii.** **GIBB-34. 50¢**

GILBERTIA.

- Araliaceae. Shs and trs grown in GH or S.
 —**tripida.** **GILB-3. 40¢**
 Oz. 90¢.

GILIA

Polemoniaceae. Annuals, biennials and
 perennials having blue, yellow, pink or white
 funnelform flowers. They are mostly annual
 and the seed can be sown early in the open
 ground. (JIL-i-ah)

- achilleaefolia.** **GIL-2. 20¢**
 Blue, dense terminal clusters; 2 ft; HA.
 —**aggregata.** **GIL-4. 30¢**
 Bears spikes of star-like fls varying from
 brilliant scarlet to pink; much like *G. rubra*
 July-Sept; 18"; space 18"; grow as HHA.
 —**capitata.** **GIL-12. 20¢**
 Popular; erect branching habit; globe-
 shaped heads of soft lavender-blue, above
 a finely cut fol; June-Oct; 20"; HA. Oz. 50¢
 —**White.** **GIL-12W. 20¢**
 —**caucolia.** **GIL-13. 25¢**
 Hardy annual.
 —**dianthoides.** **GIL-18. 20¢**
 Formerly listed as *Fenzlia* and *Linanthus*.
 An exquisite little plant with large Phlox-
 like fls of a soft rosy lilac, with yellow
 throat; easily grown; free-flowering; July-
 Sept; 6"; space 6"; HA.
 —**French Hybrids.** **GIL-23F. 25¢**
 Seed from France.
 —**iscia.** **GIL-21. 25¢**
 Blue *Gilia*.
 —**lanceolata.** **GIL-22. 25¢**
 Rose, blue, pale lilac to white; 8"; HA.
 —**lutea.** **GIL-26. 25¢**

Formerly listed under *Leptosiphon*. An
 attractive dwarf annual: 6-9"; covered with
 star-like fls in large range of colors; excel-
 lent edging plants; is good with *Alyssum*;
 June-Sept; space 6"; HA

- micrantha, Fairy Stars.** **GIL-29F. 35¢**
 In pastel shades; new. 1/2 Oz. 75¢.
 —**rubra.** **GIL-38. 20¢**
 Standing Cypress. A nice perennial, best
 treated as a biennial; striking plant with
 spikes of vivid scarlet tubular fls; July-Oct;
 3-ft; space 20".
 —**tricolor.** **GIL-42. 20¢**

Bird's Eyes. Showy and easily grown; fls
 in loose clusters of lavender and white,
 with golden and purple centers; June-Sept;
 1 ft; fls; space 1 ft. Oz. 50¢.

- Tall Mixed.** **GIL-TX. 25¢**
 —**Mixed.** **GIL-X. 25¢**

GILLENA.

ji-LEE-ni-ah)

Bowman's root. Decid; 2-3 ft; showy cut-
 foliage; pure white or rose-tinted fls in
 June; shade or part; good in masses. effect.
 Plants 50¢ each; stor \$1.60; 25- \$9.00.

GINKGO.

(GINK-goh)

Ginkgoaceae. One deciduous tree native
 of China.

- biloba.** **GINK-1. 35¢**
 Maiden-hair Tr. 15 seeds to oz. Oz. 60.

GINSENG: see *Panax quinquefolium*.

GLADIOLUS.

(glad-ee-OH-lus)

Iridaceae. Cormous perennials native of
 Africa; most of them must be dug up in the
 fall and wintered over in a frost-proof place.
 germinate at 60 F in granulated peat moss.

- bandus.** **GLAD-5. 35¢**
 White and red tinged fls; 2 ft.
 —**illyricus.** **GLAD-29. 35¢**
 reddish flowers; 1 1/2 ft.
 —**Melleri.** **GLAD-34. 35¢**
 Bright salmon red species; 3-4 ft; South
 Rhodesia.

- permeadilis.** **GLAD-41. 35¢**
 Pink or lilac fls; 2 ft; S. Rhodesia.

- psittacinus.** **GLAD-44. 40¢**

One of the parents of our large-flowered
 Glads; hardy in zone (VII) where it will
 form large clumps; fls in brilliant colored
 blooms in rich yellow and dark red.

- tristis.** **GLAD-33. 36¢**
 Yellowish white fls with purple on keel;
 2 ft; S. Af.

- Mixed Gladiolus Species.** **GLAD-X. 25¢**

NOTE: I would like to hear from anyone
 growing gladiolus species; best if located
 in central South.

GLAUCIUM.

(GLAW-see-um)

Horned or Sea Poppy. Papaveraceae. Per-
 ennials, with orange colored juice and with
 solitary orange or yellow fls.; grow as annual
 in the N; thrives in any soil; sunny places.

- flavum.** **GLAU-4. 40¢**
 Attractive foliage and large golden yellow
 or orange fls; flourishes in poor, sandy
 soil; July-Sept; 2-3 ft; HA; space 20".

- Mixed.** **GLAU-X. 25¢**

Scarlet and yellow; 2 ft; HP; grow as HA.

GLERICIDIA.

(gler-ee-CID-ee-ah)

Leguminosae. Tropical American trees and
 real good trees and hardy in the North.
 The seed can be sown in the spring but will
 require 2 years for all seed to germinate.

- japonica.** **GLED-5. 35¢**
 Tree to 70 ft; Japan.

- sinensis.** **GLED-9. 35¢**
 Tree to 40 ft; 50 seeds to oz; China.

- tricanthos.** **GLED-10. 25¢**

Sweet Locust: Scald seed; sow in spring.

- Oz. 50¢; lb. \$1.50.

- inermis.** **GLED-10N. 30¢**

Pods twisted; (V); sow in spring. Oz. 60¢.

- Oz. 60¢; lb. \$2.00.

GLFRICIDIA.

(glir-ee-CID-ee-ah)

Leguminosae. Tropical Amer. trees and
 shrubs grown in the far South for ornament.

—sepium.

Madra. Tropical tree with pea-shaped pink fls; blooms in spring in (X). Oz. 75¢.

GLOBULARIA. (glob-u-LAY-re-ah)

Globulariaceae. Little shrubby plants from the mountains of southern Eu. and Asia, blue or white fls in rounded heads. They are easily grown from seed, in a moist and partly shaded place; RG.

—bellidifolia. GLOB-3. 40¢

Probably a variety of *G. cordifolia*; prostrate sub-sh; blue fl-heads ½" across.

—cordifolia. GLOB-4. 35¢

Prostrate sub-sh; 4"; blue fls, heads ½" across.

—elongata. GLOB-6. 40¢

—repens. GLOB-8. 35¢

(*G. nana*) Prostrate; bluish fls in heads, ½" across.

—Rothschildiana. GLOB-10. 70¢

¼ Oz. \$8.00. For bulbs see Oriental Bulb List.

—trichosantha. GLOB-18. 35¢

Globe-Daisy. Blue fls in heads ½" ac; 8"; June-July; HP.

—vulgaris. GLOB-20. 35¢

Blue fls; 1 ft; HP.

GLORIOSA. (gloh-ree-OH-suh)

Glory-Lily. Liliaceae. Tuberous rooted climbers with red or yellow Lily-like flowers. They can be grown out doors in the S and in the N make fine GH plants.

—superba. GLOR-5. 50¢

Climbing Glory Lily. Oz. \$2.00.

GLOTTIPHYLLUM.

Highly succulent and nearly stemless plants; large yellow fls often scented; hold down water and food during summer growing period; keep dry; stand pots on stone slabs to prevent roots getting moisture thru drain holes; plenty of sun light.

Best as window plants or can be grown out doors; growing period, April-October.

—Mixed. GLOT-X. 50¢

GLOXINIA: see *Sinningia speciosa*.

GLYCRRHIZA. (gliss-ih-rye-zuh)

Leguminosae. Perennials and sub-shrubs.

—glabra. GLYC-2. 50¢

Licorice. Pale blue fls; 3 ft; HP; (V); rich moist soil; licorice roots. Oz. \$1.50.

GNAPHALIUM.

Compositae. Hardy HA, HB and HP; sow seed during March and April.

—trinerve. GNAP-10. 50¢

GOETIA

Onagraceae. Erect annuals with bright showy flowers in red, lilac, purple or white; easily grown, best in a light soil and sunny spot. Seeds can be started indoors or planted where they are to grow.

G. G. AND FLO A: Under this heading are the popular varieties. They probably are hybrids of *G. amoena* and *G. Bottae*; best sown during March (V-IV) or April, directly where they are to grow as they do not transplant well; farther South the seed can be planted in Sept; they are also excellent pot plants for the greenhouse; sow seed in Aug-Sept for January flowers; give plenty of room and well to stake plants; HA: space 18 inches apart.

—carmine. GODET-4E. 20¢

Double carmine-red.

—Charming. GODT-4C. 20¢

Dwarf; very bright deep satiny pink; 12".

—Cherry Red. GODT-4CR. 20¢

A real showy variety.

—Crimson Glow. GODT-4G. 20¢

Dwarf; extra dark crimson strain; 1 ft.

—Duke to York. GODT-4D. 20¢

Dwarf varmine-scarlet; 1 ft.

—Kelvedon Glory. GODT-4K. 20¢

Dwarf deep glowing salmon-orange; 1 ft.

—Mauve Queen. GODT-4M. 20¢

Beautiful new mauve color; dwarf; 1 ft.

—Fantasy. GODT-4F. 20¢

Full double flowers.

—Orange Glory. GODT-4N. 20¢

NEW: pure orange; double.

—Purity. GODT-4P. 20¢

Glistening solid snow-white; 1 ft.

—Rosemunde. GODT-4R. 20¢

Beautiful rose-pink; 1 ft.

—Sybil Sherwood. GODT-4S. 20¢

Pretty salmon-pink; 1 ft.

—Thunderbolt. GODT-4T. 20¢

Vivid deep crimson with frilled petals.

—White Swan. GODT-4W. 20¢

Large flowering satiny white; 1 ft.

—Dwarf Single Mixed. GODT-4SX. 25¢

—Mixed. GODT-4DX. 20¢

All dwarf varieties; 1 ft.

Any of above: Oz. 80¢.

TALL UPRIGHT SINGLE VARIETIES:

Nice for the border, bedding; 2-3 ft:

—Duke of York. GODT-6D. 20¢

A rich scarlet.

—Fairy Queen. GODT-6F. 20¢

White and crimson.

—Gloriosa. GODT-6G. 20¢

Lord Roberts. Blood-red.

—Pelargonium. GODT-6P. 20¢

Bluish pink, blotched sarmine; pretty.

—Scarlet Queen. GODT-6S. 20¢

Brilliant scarlet.

—The Bride. GODT-6B. 20¢

Crimson and white.

—Schamini, Mixed. GODT-6SX. 25¢

—Tall Upright Mixed. GODT-6TX. 20¢

WHITNEYII: A very compact strain, both dwarf and double flowered; also known as *Azaleaeflora*.

—Maiden Blush. GODT-7M. 20¢

Double rose-pink. ½ Oz. 80¢.

—Begonia Rose. GODT-7B. 20¢

Compact brilliant rose.

—Lady Albemarle. GODT-7L. 20¢

A compact crimson variety.

—Pambrant. GODT-7P. 25¢

—Whitnevil Blend. GODT-7X. 20¢

Many varieties. Oz. 75¢.

GOLDEN SEAL: see *Hydrastis canadensis*.

GOMPHRENA. (gom-FREE-nah)

Amaranthaceae. Native of American tropics; they are popular as "everlastings" bearing Clover-like heads; cut before fully open, hang up to dry in a cool, airy place.

G. GLOBOSA: Start seeds indoors for better germination.

—Rose. GOMP-7Z. 20¢

—Orange-yellow. GOMP-7Y. 20¢

—Purple. GOMP-7P. 20¢

—Striped. GOMP-7S. 20¢

—White. GOMP-7W. 20¢

—Dwarf Buddv. GOMP-7B. 25¢

New: extra dwarf; bright reddish purple.

—Mixed. GOMP-7X. 20¢

GONIOPHLEBIUM: see *Polypodium*.

A charge of 25¢ must be made for Catalog

GORDONIA.

(gor-DOH-nee-ah)

Theaceae. Trees and shrubs from warm regions. The American species, *G. alata*, is not too well known, but a fine tree.

—*alata* Mah.**GODO-1. 40¢**

Franklinia Tree. To 20 ft; beautiful white flowers 3" ac; it requires an acid soil and is hardy up into the (V) zone.

100 seeds \$2.50; 1,000, \$10.00.

GOURDS

Listed here are the Cucubits having hard shells and grown for ornament; they are very ornamental, easily grown and can be treated the same as Pumpkins; they want stand any frost; they dislike any root disturbance; excellent results are had by starting seeds in 3" pots, shifting to 6" and set out early in June; they need plenty of water.

SMALL FRUITED VARIETIES. Mainly

Cucubita pepo.

—**White Egg.****GORD-1E. 20¢**

About the size of a lemon.

—**Flat Striped.****GORD-1F. 20¢**

Dark green with yellow stripes.

—**Miniature.****GORD-1M. 20¢**

Fruits round, dark green striped yellow.

—**Orange.****GORD-1R. 20¢**

Orange and the same size.

—**Pear-bicolor.****GORD-1PB. 20¢**

Half green, half yellow; pear-shaped.

—**Pear.****GORD-1P. 20¢**

White fruits; pear-shaped.

—**Pear-striped.****GORD-1L. 20¢**

Dark green, striped with longitudinal white bands.

—**Spoon.****GORD-1S. 20¢**—**verrucosa.****GORD-1V. 20¢**

Small green; very warty fruits.

—**Small Fruited Mixed.****GORD-1X. 20¢**

Oz. 50¢; lb. \$2.80.

LARGE FRUITED VARIETIES: Mainly

Cucurbita leucantha.

—**Apple.****GORD-2A. 20¢**

Apple-shaped; green.

—**Bottle-shaped.****GORD-2B. 20¢**

Green.

—**Calabash Gourd.****GORD-2C. 25¢**

Edible; long round shaped fruit with a thick white edible flesh which is peeled in thin tane and dried like noodles; try it. Oz. 80¢. Offered for first time this year.

—**D'poer.****GORD-2D. 20¢**—**He-cules Club.****GORD-2H. 20¢**—**Nest Egg.****GORD-2N. 25¢**

Fruits white; size of Duck egg.

—**Orange.****GORD-2G. 20¢**—**Snake or Serpent:** see *Trichosanthes*.—**Turk's Cap.****GORD-2T. 20¢**

Very showy; acorn-shaped

—**Wax Gourd.****GORD-2W. 25¢**

Edible giant round fruits with thick flesh which tastes midway between cucumber and summer squash; very popular in southern sections; stew as a summer squash. Oz. 75¢.

—**Large Fruited Mixed.****GORD-2X. 20¢**

Oz. 50¢; lb. \$2.50.

ORNAMENTAL GRASSES

The following list includes practically all those usually grown—in the U. S. A.: at least. All may not be listed under their headings if seed is not available. I will appreciate hearing from any reader in foreign countries having other species, grown from seed.

For details see regular listings.

Agrostis nebulosa.—**pulchella.****Arundo conspicua.** Donax, v. *variegata*.**Croaderia selloana.****Briza maxima** and **minor.****Brizopyrum siculum.****Bromus.****Coix lacryma-jobi.****Cyperus alternifolius;** **paramatta.****Deplachne.****Eragrostis tenella.** (elegans).**Erianthus Ravennae.****Festuca glauca.****Ficinia poiretii.** (Isolepis gracilis)**Gnerium argenteum.****Hordeum jubatum.****Isolepis gracilis.****Lagurus ovatus.****Lamarskia.****Melica.****Milium multiflorum.****Miscanthus sinensis;** v. **zebrinus.****Panicum virgatum, bulbosum, capillare.****Paspalum.****Pennisetum longistylum;** **Rueppellii.****Poa violacea.****Polypogon monspeliensis.****Scirpus natalensis.****Sitaria.****Stipa gigantea.****Stipa pennata.****Sorghum.****Zea gigantea quadricolor.**—**Dwarf Grasses Mixed.****GRS-1X. 25¢**

Only dwarf osnamental kinds. ½ oz. 60¢.

—**Tall Grasses Mixed.****GRS-2X. 25¢**

Only ornamentals sorts. 1 oz. 80¢.

GREVILLEA.

(grev-VILL-ee-uh)

Proteaceae. Tree and shrubs native of Australia and planted for street trees or ornament; some are grown in the GH as pot places; they are fairly hardy and probably can be grown up into the (VIII) zone.

—**Banksii.****G. EV-2. 40¢**

Shrub or tree to 20 ft; red fls in dense terminal racemes, 4" long; Queensland

—**lanigera.****G. EV-10. 35¢**

Woolly Grevillea. Shrub to 5 ft; covered with mass of unusual red and green fls.

—**robusta.****GREV-45. 40¢**

Silky Oak. Lovely tree fairly hardy in Australia; good specimen street tree in S; they are also grown in the GH in the N for specimen pot plants; sow seed in flats Dec-Mar; for GH. Fresh seed comes in about June; deep yellow fls. Oz. 50¢.

—**Wilsonii.****G. EV-60. 50¢****GREWIA.**

(GREW-ee-uh)

Tiliaceae. Trees and shrubs of warm regions of the Old World; small flowers followed by fruits; ornamental.

—**occidentalis.****GREW-5. 50¢**

Ornamental shrub or small tree native of S. Africa; purple fls; mild climates.

GRINDELIA.

(grin-DEL-ee-ah)

Gum Plant. Compositae. Western U. S. perennials bearing large yellow or disk flowers and doing well on poor soils.

—**squarrosa.****GRIN-10. 25¢**

Yellow fls. ¾ ac; 2 ft; HB or HP.

GRISELINIA.

(griz-el-IN-ee-um)

Cornaceae. N. Z. evergreen shrubs and trees; they have attractive leathery leaves and are grown out doors in the South.

—**litorea.****GRIS-10. 50¢**

Tree with bright glossy foliage; ornamental; (IX); 12 ft; N. Z.

GUAVA: see **PSIDIUM.**

GUNNERA.

Haloragidaceae. Perennials with creeping rhizomes, grown for bold fol. effect; rich moist soils in sunny place; not real hardy in the North.

—**chilensis.**

Spikes 3 ft; 6 ft high; Chile-Columbia.

—**species.**

Handsome ornamental foliage; fls large white.

GUNN-2. 50¢

GUNN-1. 50¢

GUTIERREZIA.

Compositae. Western Amer. natives related to Grindelia.

—**Sarothrae.**

Matchweed. Golden Dome. Countless fine stems and minute green lvs; dressed in sparkling gold; Sept; 12"; HP.

GUTE-9. 35¢

GYMNOCLADUS.

(jim-NOK-lad-us)

Kentucky Coffee Tree. Leguminosae. The seed coat is impermeable, soak seeds 2-4 hours in concentrated sulfuric acid; wash well before planting; small lots, file seeds or try soaking them 2-6 hours in water at 195 deg. Far; sow in spring. It is a large tr.

—**dioicus.**

GYMC-1. 25¢

GYMNOCALYCIUM.

Cactaceae. S. Amer species; plants mostly globular; culture as Echinocactus.

—**damii.**

Seed may be crossed with other Gymnocalyciums.

GYMM-9. 50¢

—**Mihanovichii v. stenogonum.**

Seed may be crossed with G. Damsii. Striped; plants 2" diam; fls yellowish white with dark red centers.

GYMN-28S. 50¢

—**GYNERIUM Argenteum:** see *Cortaderia Selloana*.

GYPSOPHILA

Baby's Breath. Caryophyllaceae. Hardy annuals and perennials of great value as cut-flowers; some are good RG plants. The flowers are small and numerous, in yellow, white or rose, one makes good "everlasting" flowers.

—**G. ELEGANS:** Hardy annuals grown mainly for cut-flowers; they are valuable for this purpose. Succession planting can be made every week during spring months. In the South they should be planted in the fall; blooms in 6-8 weeks; 2 ft; C-2.

—**Super White.**

A special market growers strain. Oz. 50¢; lb. \$2.00; 5 lb. for \$6.00.

—**London Market.**

English growers strain. Same prices as above.

—**Carmine.**

—**Crimson.**

—**Rose.**

—**White.**

—**Blend of Above.**

Oz. 50¢; lb. \$2.00. Above Colors.

GYP-5M. 20¢

GYP-5L. 20¢

GYP-5C. 20¢

GYP-5S. 20¢

GYP-5Z. 20¢

GYP-5W. 20¢

GYP-5X. 20¢

GYPSOPHILA SPECIES

—**acutifolia.**

Lilac-pink fls, larger than G. paniculata; Caucasus; HP. ½ Oz. 60¢.

—**cepastrifolides.**

Moose-ear G. Downy; creeper, 3"; white cushions; RG; HP.

—**Manginii.**

Mongolian G. Rosy white fls in small panicles; HP.

GYP-1. 40¢

GYP-3. 30¢

GYP-12. 35¢

— **muralis.**

Charming dwarf species for RG; small rose colored fls on slender stems; June-Sept; 6-9"; HA; space 9"; (mew-RAY-liss).

—**Oldhamiana.**

Bright flesh-pink fls; mid-summer to frost 3 ft; HP. Oz. \$2.00.

— **pacifica.**

Pale rose or purple fls; 3 ft; Siberia; HP Oz. \$2.25.

—**paniculata.**

Baby's Breath. It grows 2-3 ft; small white fls that make up very well in bouquets or for dried fls; HP; DW. Oz. 70¢.

—**Single White.**

A select strain. Oz. 90¢; lb. \$9.00.

—**Snowflake.**

(Praecox) An improved early flowering double. Oz. \$5.50.

—**Double White.**

Oz. \$4.00.

—**repens Pink.**

Trailer to 6"; blooms early; RG; HP; LW; C-23. Oz. \$1.65.

—**Rosy Veil.**

Full sun; deep rose variety; trailing.

—**White.**

Oz. \$1.65.

GYP-18. 20¢

GYP-18DP. 30¢

GYP-18DW. 30¢

GYP-21P. 30¢

GYP-21V. 25¢

GYP-21W. 30¢

HAAGEOCEREUS.

Cactaceae. Nocturnal Cactus from South Amer; closely allied to Borzicactus.

—**versicolor v. zenalis.**

To 5 feet.

HAAG-20Z. 50¢

HABENARIA.

Orchidaceae. Fringed Orchis. Terrestrial Orchids grown in the bog garden or in moist places.

—**alata v. leucostachys.**

Sierra Rein Orchid. Very hardy, from Alaska south to Calif.

—**tetrapetala.**

Small green and white fls; a miniature Spider-Orchid; 1 ft; S. Rhodesia.

HABE-9L. 75¢

HABE-26. 50¢

HABRANTHUS.

Amaryllidaceae. Bulbous plants from trop regions; grown out doors or as pot plants.

—**Andersoni.**

To 6 ft; fls yellow veined with red; S. Am.

—**texanus.**

(Zephyranthes) 8"; yellow, coppery and striped with purple.

HAB-1. 40¢

HAB-12. 40¢

HAKEA.

(HAH-kee-uh)

Proteaceae. Rather hardy genus in Australia; one species is the loveliest foliage plants imaginable. They need good drainage; fls in cream, white, red or purple, drought resistant; much like Grevillea; sow seed in winter or spring, carry seedlings over in flats or pots the first year.

—**acicularis.**

Needle Bush. Australia.

—**laurina.**

Sea Urchin. Shrub or tree to 30 ft; crimson fls; W. Australia.

—**Mixed Species.**

HAK-1. 30¢

HAK-13. 30¢

HAK-X. 50¢

HALESIA.

(hay-LEE-zee-uh)

Mohrodendron. Silver-Bells; Snowdrop Tree. Attractive deciduous trees native mostly of N. Amer.

—**carolina.**

(tetraptera).

—**diptera.**

To 20 ft; fls 1" long; fr 2-winged, 2" long; S. C-Texas.

HALE-1. 35¢

HALE-3. 35¢

HAMAMELIS.

(ham-am-MEEL-iss)

Hamamelidaceae. Witch Hazel. Deciduous small trees or shrubs; hardy in the North. Germinate best in damp rich soil, partial shaded beds; germinating mostly the 2nd year; stratify at 65-85 degrees F. for 2 months then 3 months at 40; this is the only treatment known to partially break its dormancy.

—**bitchuenis.** **HAMA-1.** 50¢

Oz. 95¢.

—**flavo-purpurascens.** **HAMA-5.** 50¢

Oz. 95¢.

—**incarnata.** **HAMA-7.** 50¢

Oz. 95¢.

—**japonica.** **HAMA-9.** 50¢

T_o 30 ft; Japan. Oz. 90¢.

—**Moris.** **HAMA-12.** 50¢

Oz. 95¢.

—**uncinataus.** **HAMA-9.** 50¢

8" tall; fls dark reddish brown; Tex.

—**virginiana.** **HAMA-18.** 50¢

Sh to 15 ft; F9-10; very showy in late autumn.

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blue fls; rare; exquisite; N. Z.

—**Lewisii.** **HEBE-44.** 40¢

White and blue fls, ½" ac, in racemes; 6

ft; mild climates; (X); N. Z.

—**rotundata.** **HEBE-56.** 50¢

White fls in 6" racemes; 12 ft; N. Z.

—**salicifolia.** **HEBE-63.** 40¢

White fls in 6" racemes; 12 ft; N. Z.

—**speciosa.** **HEBE-64.** 35¢

Dark reddish or violet-purple fls; ½" ac,

in 4"-long racemes; 4-6 ft; (IX); N. Z.

—**Andersonii.** **HEBE-64A.** 30¢

—**Mixed.** **HEBE-X.** 30¢

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HAMATOCACTUS.

Cactaceae. Genus similari to Echinocactus

with funnelliform fls; small red berries.

—**seotipinus.** **HAMA-6.** 50¢

Glogose; 6" tall; fls yellow, red throat.

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HEDERA.

(HED-er-uh)

Ivy. Araliaceae. Evergreen climbing

shrubs grown for ground cover in shady

spots; some wall climbers; seed takes up to

2 years to germinate.

—**Helix.** **HED-4.** 25¢

English Ivy. c. s. Oz. 50¢; lb. \$2.00.

—**hibernica.** **HED-4L.** 40¢

Leaves larger, 6" across. Oz. 50¢.

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HELIANTHUS

Sunflowers. Compositae. Showy annuals and perennials, with fls ranging from 1" to 12" across and in height from 3-20 ft. They are showy in background plantings; also ideal bird food for the winter months; plant as early in the spring as possible but to miss heavy freezes.

—*a. gusniifolia*. **HELA-1. 25¢**
Swamp Sunfl. Attractive in background; 6 ft; purple disks; HP.

DEELIS: (Cucumerifolius) Cucumber Leaf Sunflower. 4 ft; HA; plant branches much and with many flowers; nice for border.

CUCURBITIFOLIUS

—Orion. **HELA-2N. 20¢**
Curled petals. Oz. 50¢.

—Ruber Hybrids. **HELA-2DD. 20¢**
—Ruber Hybrids. **HELA-2RH. 25¢**
—Ruber Hybrids. **HELA-2PH. 20¢**

—Abendsonne. **HELA-2AS. 20¢**

Beautiful new intermediate German var.

—Aureole Rheinland. **HELA-2AR. 25¢**

Wine-red zone on pure yellow ground.

—Chrysanthemum Fl'ed. **HELA-2CF. 25¢**

8-10 ft; fls 6-8" ac; nice petals and double out to edge; try pinching out terminal. Oz. 40¢.

—Double Gold. **HELA-2DG. 25¢**

Golden yellow; excellent for cutting.

—Dwarf Yellow. **HELA-2DY. 25¢**

Dwarf; double fls; white seeded.

—Dwarf Double. **HELA-2W. 25¢**

Double golden yellow; variegated lvs; 5'.

—Excelsior Hybrids. **HELA-2H. 25¢**

Chestnut-red and brown zoned fls; tipped with yellow; 3-4 ft. Oz. 60¢.

—Goldener Neger. **HELA-2NG. 25¢**

Intermediate; golden petals; showy.

—Golden Tufts. **HELA-2GT. 25¢**

Orange-yellow.

—Rich yellow self; black seed; 6 ft. **HELA-2J. 25¢**

—Mars. **HELA-2M. 25¢**

Yellow with a dark brown center; black seed; 5 ft.

—Miniature Stella. **HELA-2MS. 25¢**

Golden yellow.

—Primrose. **HELA-2P. 25¢**

Sulphur yellow; hark disks. Oz. 50¢.

—Miniature. **HELA-2M. 25¢**

Small golden yellow fls on 5 ft stems.

—Intermediate. **HELA-2IR. 20¢**

Intermediate; wine-red on yellow ground 6 ft; Oz. 45¢.

—Southern Cross. **HELA-2SC. 25¢**

Yellow self with flowers 10-12 inches across; 4 1/2 ft.

—All double golden yellow. Oz. 60¢.

—Single yellow. **HELA-2SY. 25¢**

Single yellow with black center. Oz. 50¢.

—Mixed Sunflowers. **HELA-X. 20¢**

HELIOPSIS

Everlastings. Compositae. The Strawflower. *H. bracteatum*. is the commonly grown species; sow seed in rows in April or May or they can be started earlier indoors for early bloom; for drying cut before the flowers open much.

—*bracteatum*. Mixed. **HELI-4X. 20¢**

Heads 2 1/2" ac; 3 ft; HA. Oz. \$1.25; lb. \$3.

—Crimson. **HELI-4C. 20¢**

—Fireball. **HELI-4S. 20¢**

Tomato-red with orange.

—Golden Globe. **HELI-4G. 20¢**

—Snowball. **HELI-4W. 20¢**

—Yellow. **HELI-4Y. 20¢**

Any of above: Oz. \$1.00; lb. \$9.00.

—Tom Thumb Mixed. **HELI-4TX. 20¢**

A dwarf double strain for bedding or edging. Oz. \$1.00.

—Swiss Giants Mixed. **HELI-4SG. 25¢**

Very large flowered in red and yellow shades; very nice.

—Very large flowered in red and yellow shades; very nice.

OTHER HELICHRYSUM SPECIES:

—*angustifolium*. **HELI-1. 25¢**

Narrow leaved; fol. white; yellow fls; HHP.

—*apiculatum*. **HELI-3. 25¢**

Australian Everlasting. 2 ft; fls in terminal corymbs, golden yellow; treat as HA in N; perennial.

—*argyrophierum*. **HELI-9. 35¢**

—*bracteatum*. **HELI-6. 35¢**

Creeping and branching with pink tipped bracts, deeper towards tips; lovely for HG; S. Ar.

—*bellidioides*. **HELI-5. 30¢**

Trailing woody; N. Z.; silvery white heads HHP.

—*Doerfleri*. **HELI-7. 30¢**

South Rhodesian Strawflower.

—*fulgidum*. **HELI-11. 35¢**

Pretty; from South Rhodesia.

—*monocephalum*. **HELI-11M. 30¢**

With yellow flowers.

—*obcordatum*. **HELI-14. 50¢**

Gray Everlasting; small shrub to 5 ft; golden yellow fls; Australia.

—*pachyrism*. **HELI-15. 40¢**

Dwarf slender woolly; heads deep pink; South Rhodesia.

—*semipapposum*. **HELI-21. 40¢**

Australian HP; 1-2 ft; golden yellow in many heads, 3/8" ac.

—*speciosus* (?). **HELI-21. 30¢**

Has little pink fls; pretty; S. Rhodesia.

—*swynnerionii*. **HELI-22. 40¢**

White flowered species from S. Rhodesia.

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- Regale Dwarfs. Dark blue flowers. HELR-2RD. 25¢
- Olympic. HELR-2P. 25¢
- King of the Blacks. Dark violet fls. 1/2 Oz. 85¢. HELR-2K. 25¢
- Giant Lemoinii. HELR-2L. 25¢
- Giant flowered, mixed colors. 1/2 Oz. 85¢. HELR-2V. 30¢
- White Lady. HELR-2X. 25¢
- Above Mixed.

HELIPTERUM

Everlastings. Compositae. Annuals from S. Africa, treated as HHA in the North; easily grown started indoors or planted out-



HELIPTERUM — roseum (Strawflower)

side the end of May; the genus *Rhodanthe* is now listed in this genus as well, also, the species *roseum* of *Acroclinium*; C-7.

- chinense. HELP-4. 30¢
- Late flowering shrub; 5 ft; HHSh.
- Humboldtianum. HELP-5. 25¢
- A neat little plant with golden flower-heads; July-Aug; 1 ft; HA; space 10"; C-7.
- Manglesii. HELP-8. 25¢
- Charming dwarf annual formerly listed under *Rhodanthe*; bears clusters of dainty nodding bright rose flower-heads; July-Sept; HA; space 1 ft; C-7. Oz. 80¢.
- maculatum. HELP-8M. 25¢
- Late flowering shrub; 5 ft; HHSh.
- Swan-River-Daisy. Bracts spotted red and dark ring; 18"; HHA. Oz. 80¢.
- Rose Center. HELP-8Z. 25¢
- White. HELP-8W. 25¢
- roseum. HELP-10X. 25¢
- Usually listed under *Acroclinium*; a fine "everlasting"; as well as showy in the border; single fls; C-1; HA; F7-9.

- Double. HELP-10DX. 25¢
- Double White. HELP-10DW. 25¢
- Single White. HELP-10W. 25¢
- Double Rose. HELP-DZ. 25¢
- Single Rose. HELP-10Z. 25¢
- Rose and Red Shades. HELR-10R. 30¢
- All above: 1/2 Oz. 45¢; 4 Oz. \$2.00.
- Large flowered. Oz. \$1.00.
- Sanfordii; see *Humboldtianum*.
- Mixed *Helipterum*. HELP-X. 25¢

HELLEBORUS. (hel-le-BOH-rus)

Christmas Rose, *Helebre*. Ranunculaceae. Perennials blooming very early in the spring, even late winter; thrive in rich moist soil and partial shade. Sometimes forced under glass; stratify seed during winter and sow in spring or late in fall; DC; C-23-24. shade seed bed during summer; keep moist.

- lividus. (corsicus) HELB-9. 50¢
- Pale slate-blue fls in clusters; *corsicus* is supposed to be greenish (?); 18"; HP; best time to divide plants is after flowering.

- foetidus. HELB-6. 50¢
- To 1 ft; green fls marked purple, 1" long.
- niger. HELB-10. 50¢
- Christmas Rose. White fls; 1 1/2 ft; hardy; HP. Oz. \$1.70; lb. \$18.00.
- maximus. HELB-10M. 50¢
- Has larger flowers.
- New Giant Flowered. HELB-10H. 40¢
- New hybrids in many fine shades; grown in Germany. 1/8 Oz. \$2.50.
- odoratus v. cupreus. HELB-12C. 50¢
- Copper-colored fls; 15"; HP.
- aerosanguineum. HELB-12A. 50¢
- Red flowers; HP.
- olympicus. HELB-13. 50¢
- White flowers; HP.
- vididis. HELB-18. 30¢
- Yellowish green fls; 2 ft; HP; (VIHR-id-us). Oz 80¢; lb. \$6.00.
- Mixed. HELB-X. 40¢

HELWINGIA.

- japonica. HELW-5. 50¢

HEMEROCALLIS. (hem-er-oh-KAL-is)

Day Lily. Liliaceae. Mainly tuberous rooted perennials easily grown from seed.

- Middendorffii. HEME-21. 50¢
- Broad Dwarf Day-lily. Pale orange fls; 1 ft; Siberia. Oz. \$2.00.
- Ferrick Hybrids. HEME-6FX. 50¢
- Mrs. Ferrick's very best hybrids; seed from very choice crosses.
- minor. HEME-22. 50¢
- Dwarf yellow Daylily. Yellow fls in cups 3-4" long; Siberia.
- Peerless Blend. HEME-XP. 30¢
- From hand pollinated varieties including reds and pinks.

HERACLEUM. (hehr-ak-KLEE-um)

Cow-Parsnip. Urtelliferae. Course herbaceous perennials used for bold effect in the border or wild garden; flowers pink or white, and very small and in large umbels; sow seed in the fall to germinate in the spring.

- Mantegazzianum. HERA-2. 30¢
- Deeply cut white fls in umbels to 4 ft. ac; 9 ft; HP; try sowing seed in fall to germinate in the spring; C-23.
- villosum. HERA-6. 30¢
- (giganteum) Deeply cut lvs; white fls; 12 ft; HP; Caucasus. Oz. 90¢.

HERBERTIA. (her-BERT-ee-ah)

Iridaceae. Bulbous plants with basal lvs; Texas to Chile.

- pulchella. HERB-2. 35¢
- (pull-KELL-ah).
- scandens. HERB-5 40¢
- (H. volubilis) Guinea Flower; Australia.

HEREROA.

Low shrubs or clumps; lvs dotted; fls medium large, yellow; best on window sill or out doors during summer.

Do best as window plants or can be used out doors during summer; grows April-October.

- Rehnetiana. HERE-8. 50¢

GARDEN HERBS

Following are some of the more common Herbs found in this issue:

- Anise: see *Pimpinella anisum*.
- Balm: see *Melesia officinalis*.
- Basil: see *Ocimum basilicum*.
- Borage: see *Borago officinalis*.
- Caraway: see *Carum carvi*.

Rose-red to crimson 6" ac; 10 ft; swamps in Ga.

—**fulgens.** **HIBS-18.** 40¢
A species from New Guinea.

—**grandiflorus.** **HIBS-21.** 30¢
To 6 ft; pale pink fls with reddish color in bottom; petals to 6" long. **Oz.** 80¢.

—**roseus.** **HIBS-212.** 40¢
—**Hamabo.** **HIBS-22.** 40¢
Japanese sh; 10 ft; lge yellow fls, darker at base, 3" ac; (X).

—**Manihot.** **HIBS-26.** 30¢
Yellow to white, dark brown centers, 9" ac; 9 ft.

—**Golden Bowl.** **HIBS-26G.** 35¢
Tall spires of large lemon-yellow, blotched maroon fls; showy.

NOTE: No seed has come for 1958 at time this is printed; hope seed arrives later.

—**Sunset.** **HIBS-28S.** 40¢
Very large yellow fls with dark centers.

—**militaris.** **HIBS-27.** 30¢
White or pink fls; purple centers; 5" ac; 5 ft.

—**Moscheutos.** **HIBS-28.** 30¢
(mos-KAY-eu-tus) Pink, rose or white; 8 ft; HP.

—**alba.** **HIBS-28W.** 30¢
—**mutabilis.** **HIBS-29.** 50¢
(mew-TAB-il-iss) Cotton Rose; various colors; (IX).

—**parmutabilis.** **HIBS-33.** 30¢
Similar to mutabilis; broader sepals.

—**Rosa-sinensis.** **HIBS-36.** 50¢
Rose of China. Sh to 30 ft.

—**Sabdariffa.** **HIBS-37.** 35¢
Roselle or Jamaica Sorrel. Sub-tropical plant grown for its fleshy calyx; used in making jams, etc. Bushy; 4 ft; attractive maroon fls; set plants 5 ft apart; sow early in spring; grow like tomatoes.

—**syriacus.** **HIBS-41.** 30¢
(sihr-RYE-ak-us) Rose of Sharon. (IV).

Oz. 75¢; lb. \$4.00.

—**flor-a pleno.** **HIBS-41'D.** 35¢
Double fls; (IV). **Oz.** 80¢; lb. \$4.25.

—**filiceus.** **HIBS-44.** 35¢
(Pariti or Paritium) Mahoe. Sh or tr; yellow fls, 3" long.

—**Trionum.** **HIBS-45.** 30¢
Flower-of-the-Hour. Yellow or white, with dark centers; fls in 4 mo; 2 ft; HP.

—**Mixed Species and Varieties.** **HIBS-X.** 25¢

HIERACIUM. (hy-er-AY-shi-um)

Compositae. Perennials with red, orange or yellow flowers, some of which are called Hawk-weed. Easily grown; leaves in rosettes with the flowers in heads on erect spikes; cut fls off directly after flowering will check the reseedling.

—**aur-a-tiacum.** **HIER-3.** 35¢
Devil's Paint Brush. Orange fls; 15"; HP.

—**fae-roseus.** **HIE-6.** 30¢
—**pilosum.** **HIER-14.** 50¢
—**villosum.** **HIE-19.** 25¢

Bright golden yellow; silvery lvs; 2 ft; EP 1/32 Oz. 90¢.

—**Walterianum.** **HIER-23.** 50¢
—**Mixed.** **HIER-X.** 25¢

HIPPOPHAE. (hip-POFF-uh-ee)

Sea-Buckthorn. Elaeagnaceae. Shrubs and small trees covered with silvery scales; sow seed in the fall to germinate in the spring; for flowers keep till sex is determined.

—**rhamnoides.** **HIPO-1.** 30¢
Sea-Buckthorn. Bright orange-yellow fls; to 30 ft; very hardy; (ram-NOY-deez).

c. s. **Oz.** 60¢; lb. \$4.00.

HOHERIA. (hoh-HEER-ee-uh)

Malvaceae. A genus of ornamental flowering trees confined to N.Z.; they can be grown out doors in the (X) zone.

—**angustifo.lia.** **HOHE-2.** 50¢
Straggling and interlaced; eventually becoming slender and spreading; bears masses of white fls; 15 ft; (IX); N.Z.

—**populnea.** **HOHE-7.** 50¢
Most beautiful tree with handsome foliage covered in autumn with sheets of white starry fls often concealing the lvs; 12 ft; try in pots; (IX); N.Z.

—**Osbornei.** **HOHE-10.** 50¢
Uncommon free-blooming form; white fls with bluish purple stamens; under surface of lvs deeply tinted; recommended highly; try it in pots; (X); 10 ft; N.Z.

—**purpu-ea.** **HOHE-10P.** 50¢
Leaves with coppery veins and under surface; hybrid of Duncan and Davies; 18 ft; (X).

—**N. Z. species.** **HOHE-X**

HOLLYHOCKS

(Althaea rosea). Malvaceae. They are perennials excepting a few annuals. Do best in a rich soil and warm place sheltered from strong winds; seed can be started from early spring to August; C-23.

ANNUAL TYPES: When planted early in the spring they flower the same year; they are not as high as the hardy types; July.

—**Indian Chief.** **HOLY-3C.** 20¢
Half double; deep amaranth-purple; 4 ft.

—**Indian Spring.** **HOLY-3D.** 20¢
Rose and pink shades; 4 ft. **Oz.** 80¢.

—**Indian Summer.** **HOLY-3S.** 20¢
Double pink fls.

—**Mixed.** **HOLY-3X.** 20¢

PERENNIAL VARIETIES

—**Allegheeny Mixed.** **HOLY-2A.** 20¢
Semi-double 5" ac; petals fringed.

—**Colorado Sunset.** **HOLY-2C.** 25¢
New strain; buff-apricot; pretty; double.

—**Imperator.** **HOLY-2M.** 25¢
Fringed petals and crested centers.

—**Triumph.** **HOLY-2T.** 25¢
Large fringed petals.

CHATER'S DOUBLE: These grow 6 ft and are the best double strain. Colors are the finest. **Oz.** \$1.75.

—**Carmine.** **HOLY-4C.** 20¢
—**Ca-mine-rose.** **HOLY-4R.** 20¢

—**Chamois.** **HOLY-4H.** 30¢
—**Cream.** **HOLY-4M.** 20¢

—**Crimson.** **HOLY-4CM.** 20¢
—**Golden Yellow.** **HOLY-4YG.** 25¢

—**Lavender.** **HOLY-4V.** 20¢
—**Lilac.** **HOLY-4L.** 20¢

—**Pink.** **HOLY-4K.** 20¢
—**Deep Scarlet.** **HOLY-4S.** 20¢

—**Sulphur-yellow.** **HOLY-4Y.** 20¢
—**Violet.** **POLY-4T.** 20¢

—**Pure White.** **HOLY-4W.** 20¢
—**Salmon.** **HOLY-4A.** 20¢

—**Deep Rose.** **HOLY-4Z.** 20¢
—**Chater's Mixed.** **POLY-4X.** 20¢

Any of above varieties: 1/2 Oz. 90¢.

HOLMSKIOLDIA. (holm-skee-OLD-ee-uh)

Verbenaceae. Shrubs hardy in the South or in the greenhouse in the North.

—**sanguinea.** **HOLM-1.** 30¢
Chines Hat Plant. Very pretty Himalayan creeper to 30 ft; fls in large panicles of scarlet, 1" across; in great profusion; (X).

HOMALOCOPHALA.

Cactaceae. Formerly with Echinocactus.
—*texensis*. **HOMA-3. 50¢**
6" high; depressed; fls bell-shaped, 2"
long, scarlet and orange below; Texas.

HOMERIA.

(ho-MER-ee-ah)
—*colina*. **HOME-1. 35¢**
Beautiful clear orange fls; fugacious but
plentiful; 1½ ft; easy; S. Af; grow like
Ixia; HHHb;(VII).

HOMOGYNE.

(ho-MO-gee-ne)
Small perennials with white or purple
heads; found in the mountains of C. Eur.;
they thrive in moist soils.

—*pina*.

Yellow fls; 6"; HP.

HOMO-1. 35¢**HORDEUM.**

(HORD-ee-um)
—*jubatum*. **HORD-1. 25¢**
Squirrel-tail Grass. Drooping spikes; 2½
ft; for drying it must be cut before seeds
are ripe; this can also be dyed; HP or HP.

HOARHOUND: see **Marrubium**.

HOUSTONIA.

Mt. H. Decid; 6-18"; purple fls; July;
shade or sun. **PLANTS ONLY: 75¢; 3**
for \$1.75.

HOVEA.

(HOVE-6. 35¢)
—*purpurea*. **HOVE-6. 35¢**
Attractive sh; 8 ft; covered in spring
with masses of small purple pea-fls; good.

HOVENIA.

(hoh-VEEN-ee-uh)
Rhamnaceae. A few deciduous shs and
trs from Asia.

—*dulcis*.

Japanese Raisin Tree. Easy; (IV); tr to
30 ft; fls green in many racemes; thrives
in sandy loam; fr edible. **Oz. 90¢; lb. \$3.50.**
—*glabra*. **HOVA-1G. 50¢**
Oz. 90¢; lb. \$3.50.

HOWEA.

(HOW-ee-ah)
Palmaceae. Kentia Palm. Two showy and
popular species grown in great numbers as
tub plants.

—*Belmoreana*.

(Kentia B) Greenhouse Palm of great
beauty as tub plant. **100 seeds \$5.00; 1,000.**
\$23.00.

—*Forsteriana*.

(Kentia F.) Excellent greenhouse Palm;
tubs. **100 seeds \$4.00; 1,000, \$20.00.**

NOTE: These should be fresh and therefore
orders may be delayed in filling; if
you wish them in quantity, book your order
well in advance.

HOWITTIA.

(HOWI-12. 35¢)
—*trilobularis*. **HOWI-12. 35¢**
Tall shrub carrying masses of purple fls,
1" across; like a small Hibiscus blossom.

HUDSONIA.

(hud-SOH-nee-uh)
Beach-Heather. Small cv. shrubs with
awl-like leaves and solitary yellow fls. Col-
onize in sandy soil; difficult to grow.

—*ericoides*.

Golden Heather. 6" bushy green shrub;
golden mass of fls; seeds delivered in July;
barren sandy soil.

—*imbricata*.

Tufted plant; golden fls; 8 inches; HP.

Where prices are given by the ounce
as low as ¼ oz. can be ordered if it is not
less than 50¢. Otherwise ½ oz. is minimum

HUMULUS.

(HEW-mee-lus)
Hop. Moraceae. Tall hardy twining vines;
very ornamental for porches, etc; C-9.

—*japonica*.

One of the most rampant and rapid
growing of all climbers. Sow seed in pots
in cold frame in April or where they are
to grow; give support immediately; HA;
10-20 ft; trans; space 18". **Oz. 90¢; lb. \$7.00.**
—*variegatus*. **HU-MU-3V. 25¢**

Foliage streaked and splashed with pure
white. **Oz. 90¢; lb. \$8.00.**

—Mixed.

HUMU-3X. 20¢**HUNNEMANNIA.**

(hun-em-MAN-ee-uh)
—*fumarici*. **HUNN-1. 5¢**
Santa Barbara Poppy; Golden Cup. Yel-
low fls, 3" across; 2 ft; warm sunny spot;
grow as TA; TP; space 12".

—*Sunlette*.

A bright semi-double yellow variety.

HURA.

(HEW-ruh)
Euphorbiaceae. Trees of trop. Amer; and
grown in far South or as juvenile pot plants
in GH; best in light sandy soils.

—*crepiata*.

Sand-box Tree. Greenhouse; (X). **100**
seeds \$4.50. (krep-id-DAY-tans).

HYACINTHUS.

(hye-uh-SINTH-us)
Hyacinth. Liliaceae. Bulbous plants of
great garden value; some listed were formerly
under Galtonia and Muscari. Bulbs can
be had in the fall; see bulb list.

—*amethystinus alba*.

Nodding white fls; 6" high; Spain; HP.

(am-meth-THIST-in-us)

—*candicans*: see **Galtonia candicans**.—*ciliatus*.

(azureus) Daintiest of the H; has short
stems; China-blue; 3 inches.

—*Sawrairi*.

HYAC-8. 50¢

PLEASE DO NOT USE COMMON NAMES**HYDRANGEA.**

(hye-DRAYN-jee-ah)
Saxifragaceae. Ornamental shrubs with
showy terminal fls; sow seed thinly and cover
lightly.

—*paniculata*.

To 30 ft; white fls. **HYDR-15. 35¢**
Lb. \$5.00.

HYDRASTIS.

(hye-DRASS-tiss)
Ranunculaceae. Low perennial plants re-
quiring a rich moist soil with much leaf
mold; shade or open woods.

—*canadensis*.

Golden Seal, Orange Root. Usually grown
for its roots. **Seed: \$3.00, per 100; 500 for**
\$5.00. PLANTS: 100 for \$5.00.

Seed best when fresh; plant 3-4 per hill,
1 ft apart each way or plant in seed bed
25-50 seeds per sq. ft. trans. when 1-2 yrs
old; plant seed 1½" deep; shade 2/3; 3/4;
cover bed with 1" straw or saw dust.

HYDROPHILLUM.

(hye-droh-FILL-um)
Water-Leaf. Hydrophyllaceae. HB and HP
found in woods; wild garden.

—*capitatum*.

Water Leaf. Woods flower; pink; 3"; HP

HYMENANTHERA.

(hi-men-ANTH-er-uh)

—*crassifolia*. **HYMN-4. 50¢**
Low growing shrub with white berries;
good for banks; 4 ft; (IX); N 2.

—*obovata*.

(oh-oh VAY-tah) **HYMN-12. 50¢**
Very variable in gray bark and purple
berries; 6 ft; (IX); N 2.

HYMENOSPORUM.

Pittosperaceae. One Australian ev. tr or sh to 40 ft; hardy in the South.

—flavum.

HYMP-1. 30¢
Yellow fls; Australian tree or shrub to 50 ft; (IX).

HYOSCYAMUS.

(hy-oh-SYE-am-us)

Henbane. Solanaceae. Funnel-shaped fls in spikes, best in poor soils. They should be used in large borders; some are grown for medicinal purposes.

—riger.

HYOS-3. 30¢
Greenish yellow fls, veined purplish; 2½ ft; HB or HA.

—lutea.

HYOS-3L. 40¢
Nice yellow flowered variety.

HYPERICOPHYLLUM.

Pittosperaceae. One Australian ev. gr sh or tr to 50 ft; hardy in the South.

—compositarum.

HYPE-1. 30¢
Pretty Rhodesian flower; 3-4 ft; bright orange.

HYPERICUM.

(hy-PEHR-ik-um)

St. John'swort. Hypericaceae. Very decorative perennials and shrubs, usually with bright yellow fls and many showy stamens. Grow best in a sandy loam in partial shade; they are not hardy in the North but with shelter and in protected spots can be grown in zone (IV); seeds sown thinly during Feb. and covered lightly, germinate freely; C-24.

—calycinum.

HYPR-12. 50¢
Seed is very fine; sow carefully. c. s. Oz. \$1.00; lb. \$12.00.

—Coris.

HYPR-18. 50¢
Sub-sh; 1 ft; fls in cymes; (VI).

—Hidcote.

HYPR-41. 35¢
HYPR-40. 35¢

Sh to 6 ft; fls 2½" ac; far S; (X).

—lanceolatum.

HYPR-48. 35¢
Giant St John's-wort. Tree up to 20 ft; yellow fls 3" ac; attractive yard tree; likes cool moist conditions.

—olympicum.

HYPR-58. 40¢
Shrubby; 9" high; large deep golden fls; HHS.

—patulum.

HYPR-60. 40¢
Shrub to 3 ft; fls 2" ac; Japan; (V). c. s.

Oz. \$1.00; lb. \$12.00.

—Henry.

HYPR-60H. 40¢
HYPR-61. 30¢

—peforatum.

HYPR-63. 40¢
HP; 2 ft; fls 1" ac; Herb.

—polyphyllum.

HYPR-64G. 40¢
Golden fls; sh; 6"; (VIII); Cilicia

—grandiflorum.

HYPR-70. 40¢
Dwarf, spreading; yellow fls. 1/8 Oz.

—repens.

HYPR-70PR. 40¢
Golden carpet in late summer; prostrate shrub; (IX).

—grandiflorum.

HYPR-X. 25¢
Large plain flowers.

—Mixed.

HYPOXIS.

(hye-POZ-iss)

Star Grass. Amaryllidaceae. Basal grass-like leaves; root-stock or corms; useful in the wild garden or border; dry soil.

—speciosa (?).

HYPX-4. 25¢
Golden flowers; S. Rhodesia.

HYSSOPUS.

(HISS-op-us)

Hyssop. Ornamental herbs useful as a culinary or medicinal herb. Light soils; lime; See Herb List.

—officinalis.

HYSS-1. 25¢
Hyssop. Blue fls; HP; start seed in the

frame during March; transplant seedlings when 1" high to good limed soil; space 6".
—roseus.

HYSS-1R. 30¢**IBERIS.**

(y-BEE-ris)

Candytuft. Cruciferae. These come in half-hardy annuals and evergreen perennials; easily grown from seed. The annuals can be sown the later part of May; germinate quickly and flower in a short time; in the South sow in the fall. Keep plants growing and well watered; clip the seed pods off as they easily go to seed; C-2.

I. AMARA: (coronaria) Rocket Candytuft.

Erect annuals; 1 ft; usually with large umbel-like flower heads; C-2.

The Hyacinth-flowered type; makes good GH fls started from late Nov. into Jan; 100 days to fls; transplant quickly; space 6 x 8".

Roses and lavender Cardinal are excellent for GH growing; space 10 x 10".

—ICEBERG.

IBER-2CB. 30¢

A new Super Hyacinth Flowered florist Candytuft. Bloom size is unsurpassed in any strain and is truly the feature of this new Candytuft, making it the finest we have marketed. Six spikes are the general rule, growing about 12-15" high.

—Giant White.

IBER-2H. 25¢

Large reselected florist strain. Oz. 60¢.

—Giant Hyacinth-flowered.

IBER-2F. 25¢

Extra select strain; large compact heads. Oz. 50¢.

—coronaria.

IBER-2C. 20¢

Flowers with white crown; pretty type.

—Empress nana.

IBER-2E. 20¢

Dwarf, large white spikes.

—princeps.

IBER-2P. 20¢

spikes.

—White Rocket.

IBER-2R. 20¢

Will stand more unfavorable conditions.

—Miniature Gem.

IBER-2M. 20¢

New; 4 inches high with 4-6 spikes per plant; nice edging.

—Above Mixed.

IBER-2X. 20¢**IBERIS UMBELLATA:** Globe Candytuft.

hardy annuals; not fragrant; commonly grown in the garden; bare open spots in woods or on slopes; C-2; HA; space 8".

FAIRY CANDYTUFT.

—Fairy Candytuft.

IBER-17F. 35¢

A really new and different Candytuft. The little dome-like plants are neat, dwarf and very compact, growing about 8" high and in pink, rose, carmine, crimson, lavender, flesh-pink and white. Ideal for borders or bedding or an annual hedge. ½ Oz. \$2.00.

—Dunnett's Crimson.

IBER-17C. 20¢

—Carmine.

IBER-17M. 20¢

—Rose Cardinal.

IBER-17Z. 20¢

—White.

IBER-17W. 20¢

—Mixed.

IBER-17X. 20¢

Above, except 17Z, Oz. 75¢.

OTHER SPECIES:

—affinis.

IBER-1. 20¢

Erect to 16 inches; white fls. with lilac tinge; HA.

—jucunda.

IBER-4. 25¢

Aethionema coridifolium) 4-6"; rosy lilac

fls in racemes; pretty; HP; C-23. 1/16 Oz. \$1.60.

—**gibbaltaria.** IBER-5. 25¢
Edging; large purple fls in flat clusters; 10 in; warm spots on banks or rocky places; TP; C-23. 1/2 Oz. \$1.00.

—**saxatilis.** IBER-12. 40¢
Edging Candytuft. 12"; evergreen; white fls; RG; best in open spots; rocky banks, slopes or margins of shrubbery or woods; HP.

—**sempervirens.** IBER-14. 20¢
Pure white; edging; evergreen; HHP; C-23. 1/2 Oz. \$2.00.

—**Tenoreana.** IBER-15. 30¢
(Pruittii) HP; ev; 6-8"; fls whitish or rose in short umbel-like racemes; Spain.

—**Snowflake.** IBER-14S. 30¢
Large pure white fls. 1/16 Oz. 2S.00.

—Above species Mixed. IBER-X. 20¢

IBICELLA.

Martyniaceae. S. Amer. plants; fls are in dense compact terminal racemes.

—**lutea.** IBIC-2. 35¢
(Marthynia, Proboscidea) TA; 1 1/2 ft; fls greenish yellow; fruits are used as pickles; Argentina.

IBOZA.

—**riparia.** IBOZ-5. 35¢
Ginger Plant. Creamy white fls; dark anthers; grow much like Salva or Coleus; S. Africa.

IDESIA.

Flacourtiaceae. Consists of but one tree native of China and Japan; hardy in South.

—**polycarpa.** IDES-1. 50¢
Fls greenish yellow, frag, 10" drooping panicles; orange-red berries. Oz. 90¢; lb. \$5.00.

Very dwarf but with large heavy white

ILEX - HOLLY

Aquifoliaceae. Evergreen and deciduous trees and shrubs having glossy leaves and brilliantly colored berries. They are very ornamental but some species are not hardy in the North. They require an acid soil and the germination of the seed will be more successful if the soil used is mostly peat or decayed saw dust. Seed should be stratified as they germinate the 2nd year; the moist seed is benefited if exposed to freezing.

—**Aquifolium.** ILEX-2. 35¢
English Holly. c. s. Oz. 40¢; lb. \$2.40.

—**variegatis.** ILEX-2V. 40¢
—**cornuta.** ILEX-9. 25¢

Shrubby to 10 ft; hardy in (V).

—**crenata.** ILEX-10. 25¢
Japanese Holly. To 20 ft; fine; sow in the fall for best germination.

—**geniculata.** ILEX-16. 30¢
Decid. sh from Japan; red berries Oz. 90¢

—**glabra.** ILEX-17. 25¢
Ink-berry. Hardy in N; black fruit; for shade; ev; usually germinates 2nd yr; stratify helps.

—**laevigata.** ILEX-19. 50¢
—**laevigata.** ILEX-21. 30¢

Winter-berry. Good; scarlet berries in clusters; swamps; 6 ft; stratify will help.

—**latifolia.** ILEX-26. 30¢
Tarajo. Ev. tr. to 50 ft; shining lvs 7"

long; red berries; Japan. Oz. 95¢.

—**paraguariensis.** ILEX-29. 50¢
Evergreen shrub or tree to 30 ft; (X).

—**pedunculosa.** ILEX-30. 50¢
(fusianensis) Ev sh to 30 ft; bright red br on long stalks; Japan. Oz. 90¢; lb.

\$6.00.

—**purpurea v. Oldhamii.** ILEX-33. 50¢
Tr to 50 ft; lvs narrower than purpurea; more leathery; Japan. Oz. \$1.00; lb. \$7.00.

—**verticillata.** ILEX-37. 20¢
Black Alder. Shrub to 10 ft; bright red berries; hardy.

—**Mixed Ilex.** ILEX-X. 20¢

NOTE: I can furnish seed of ILEX in 10-15 other species, if you are interested.

ILICUM.

Magnoliaceae. Ornamental ev. shs and trs; hardy in South.

—**anisatum.** ILII-2. 30¢
Greenish yellow fls, 1" ac; small sh or tr; Japan. Oz. \$1.50.

IMPATIENS

Garden Balsam; Touch-me-not. Balsaminaceae. Annuals and perennials, grown in the garden or greenhouse for their odd and showy flowers. They are all tender to frost. DW; C-8.

I. BALSAMINA: The popular garden Balsam with its rose-shaped fls in white, lavender, lemon-yellow and many shades of red; sow in April in doors or in June direct to the garden; rich sandy loam; ample moisture; 2 ft; germinates best at 75 deg. F; HHA; space 18"; trans; C-8.

—**Single Mixed.** IMPA-2SX. 20¢

—**Camolia-flowered Mixed.** IMPA-2CX. 25¢

—**Double Bush Mixed.** IMPA-2BX. 20¢
Are ideal for bedding; 1 ft.

—**Scarlet.** IMPA-2BS. 25¢

—**Dwarf Mixed.** IMPA-2DX. 20¢

—**Rose Flowered, Mixed.** IMPA-2ZX. 25¢

I. HOLSTII: Red-striped stems and flowers varying from white to scarlet; usually started in GH for summer border; TP; July to Oct; 1 1/2-2 ft; space 1 ft apart; DW; C-55. These make first class pot plants.

—**Carmine.** IMPA-7C. 35¢

—**nana, Liegnitzia.** IMPA-7LN. 50¢
Deep red color.

—**Morganrote.** IMPA-7M. 35¢
A nice red German variety.

—**Schottenglut.** IMPA-7S. 35¢
A fine dark red.

—**Salmon.** IMPA-7N. 35¢

—**Vermilion.** IMPA-7V. 35¢

—**Mixed.** IMPA-7X. 25¢

I. SULTANII: Best known greenhouse subject; a favorite house plant and easily grown the year around; can be grown out doors during frost-free period. In shade. Sow in March at least 60 deg. F; DW; C-55.

—**Dwarf Brilliant Scarlet.** IMPA-16S. 50¢

An improvement over Dwarf Fiery Scarlet; fls are larger and the color an intense scarlet; very floriferous. 1/4 Oz. \$1.95.

—**nana Carmine.** IMPA-16V. 50¢

—**Karminzwerg.** IMPA-16K. 25¢
Nice carmine variety.

—**Liegnitzia nana.** IMPA-16L. 50¢

Dwarf; vermilion-red fls.

—**Mixed.** IMPA-16X. 35¢

INCARVILLEA. (in-kahr-VII-ee-ah)

Ranunculaceae. Showy and fairly hardy perennials from China, producing terminal clusters of red and yellow tubular flowers above a basal group of vivid green leaves. Sow seeds up to Aug. for next season's flowers; give winter protection in N; seed definitely requires a cold spell to germinate; C-24.

- Delaveyia**. ICAR-2. 25¢
Rose-purple fls, with yellow tubes; very
nice; 2 ft; HP; LW; C-23. Oz. \$3.00.
—**grandiflora brevipes**. ICAR-4B. 35¢
Crimson-purple fls; Gloxinia-like; RG;
10"; HP. Oz \$2.50.
—**variabilis**. ICAR-9. 30¢
Cream to pale rose; tubular; everbearing;
easy; HB.
—**Mixed**.

ICAR-X. 20¢

INDIGOFEA.

(in-di-GO-fe-rah)

Indigo. Leguminosae. Pretty ornamental
plants for the border or shrubbery, many of
which are not hardy in the far North. Some
can be grown in the GH or for window treat-
ments; best to sow seed during Feb; pot up
seedlings in pots till wanted or permanent
locations.

- ausraia**. INDI-3. 40¢
4 ft sh; red fls in racemes; Australia.
—**Dosua**. INDI-5. 25¢
Red fls in racemes; low shrub; India; TP.
Oz. \$1.30.
—**Potantinii**. INDI-13. 25¢
Lilac-pink fls in racemes; hardy in North;
shrub to 5 ft.

INGA.

(IN-guh)

Leguminosae. Trees and shs from tropics;
useful as shade trees in far South.
—**dulcis**: see *Pithecellobium dulce*.
—**Saman**: see *Samanea saman*.

INULA.

(IN-yu-la)

Compositae. Showy herbaceous perenn-
ials, most of which are hardy in the North;
large daisy-like heads of yellow or orange
flowers. They make a brilliant display and
grows well in average soil but requires a sun-
ny place; should be grown for its medicinal
properties, roots excellent as stomach tonic;
N. Asia; HP.

- glandulosa**. INUL-6. 20¢
Solitary orange heads; 4 tft; HP; C-23.
—**Felenium**. INUL-9. 50¢
Elecampane. Yellow fl-heads, 4" ac; 6
ft; N Asia; HP
—**magnifica**. INUL-15. 30¢
Fl-heads yellowish orange to 6" ac; HP
to 4 ft. Caucasus.
—**Oculus-Christi**. INUL-17. 25¢
Pretty yellow heads; 2-3 ft; HP
—**Roviana**. INUL-19. 50¢
Orange-yellow fl-heads, 4" ac; 2 ft; HP.
—**castanea**. INUL-20. 20¢
Golden yellow; 1½" across; 2 ft; HP.
—**arvensis**. INUL-22. 25¢
—**thapsioides**. INUL-23. 20¢
—**Mixed**. INUL-X. 20¢

IPOMOEA

Morning Glory. Convolvulus. They
are mainly twining annual and perennial
vines. The genus is widely distributed and
comes in many kinds and habits. They are
all easily grown from seed; file a notch in
seed for better germination. All tender to
frost. See Convolvulus and Quamoclit for
other closely related forms.

NEW GIANT FLOWERING JAPANESE:

These flower up to 8" across and in a
varied color range; in Japan they are usu-
ally grown in 6-8 inch pots, outdoors, and
pinched and shaped into a bushy form;
when in flower they can be brot into the
house; can be grown outside in ordinary
way, but flowers are not so large; they will

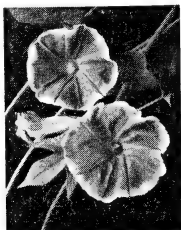
not stand winds and the ordinary rough
treatment the common Morning Glories
will take.

NOTE: If you wish to make a small gift
of these beautiful flowers we will send
them in pretty colored Japanese packets.
showing the color of each variety; colored
packets available for nearly all varieties.
Packets contain about ten seeds each.

- Akatsuki No Keisei**. IPOM-19AK. 30¢
Deep red with white markings.
—**Beni Jishi**. IPOM-19BJ. 25¢
Brilliant red flowers.
—**Chiyo No Ai**. IPOM-19CA. 25¢
Deep blue.
—**Chiyo No Okina**. IPOM-19CO. 25¢
Blue, edged white.
—**Chiyo No Tsuyu**. IPOM-19CT. 25¢
Large light sky-blue; showy white base.
—**Chiyo No Yuki**. IPOM-19CY. 25¢
Pure white flowers.
—**Dai-Nichirin**. IPOM-19DN. 25¢
Deep carmine-red or scarlet.
—**Eikan**. IPOM-19EK. 25¢
Deep carmine with white edge; un-
common color.
—**En Nen No Mai**. IPOM-19EM. 25¢
Silvery gray with white.
—**Fuji**. IPOM-19FJ. 25¢
Deep carmine-red.
—**Fuku Musume**. IPOM-19FM. 25¢
Purple-rose with a white edge.
—**Heian No Hokari**. IPOM-19HH. 25¢
Deep carmine-red with white edge.
—**Heian No Kasumi**. IPOM-19HK. 25¢
Cherry-red with white edge.
—**Heian No Yume**. IPOM-19HY. 25¢
Purplish rose with snow flake white.
—**Heian No Yurohichi**. IPOM-19HO. 25¢
Deep red with white edge.
—**Heian No Sakae**. IPOM-19HS. 25¢
Brown with white edge.
—**How-Nen**. IPOM-19HD. 25¢
Deep brown with white edge.
—**Hanagasa**. IPOM-19HG. 25¢
Deep red with lighter red markings.
—**Honkan**. IPOM-19HK. 25¢
Brilliant red with white edge.
—**Kagetsu**. IPOM-19KU. 25¢
Deep rose self.
—**Kiso No Tenku**. IPOM-19KT. 25¢
Deep reddish brown with white markings.
—**Fumata**. IPOM-19FT. 25¢
Lavender-gray spotted white.
—**Hatsu Arashi**. IPOM-19HA. 25¢
Purple-blue.
—**Trimpama**. IPOM-19TM. 25¢
Pure white with showy red base coloring.
—**Atsuyu No Aoi**. IPOM-19AM. 25¢
Light blue with white markings.
—**Funko Sakura**. IPOM-19MZ. 25¢
Deep white.
—**Matubara**. IPOM-19MS. 25¢
Mulleberry-like leaf; lovely shade of violet
with white; 8" to 8" across.
—**Okina No Warai**. IPOM-19OW. 25¢
Deep brown color.
—**Okina No Mai**. IPOM-19OM. 25¢
Lovely white with light red markings.
—**Suki No Yikai**. IPOM-19SY. 25¢
Deep red with white markings; giant fls.
—**Shirokasa**. IPOM-19SG. 25¢
Lovely light brown; unusual color.
—**Saion**. IPOM-19SS. 25¢
Deep blue with white flakes.
—**Tama Fusa**. IPOM-19TF. 25¢
Mulleberry-like leaf; lovely light purple.
—**Shirakai**. IPOM-19SK. 25¢
Deep purplish red with white edge.
—**Tenshi**. IPOM-19TE. 25¢
Pure white.
—**Yashiro No Aki**. IPOM-19YA. 25¢
Deep brown edged white with strips on
edges.

- Yuki. **IPOM-19YK. 25¢**
Brown with white markings.
—Yoi Machi. **IPOM-19YM. 25¢**
Lovely shade of purple, marked white.
—Mixed. **IPOM-19X. 25¢**
Contains a blend of above varieties;
about 15 seeds per packet. Oz. \$2.50.

I. PURPUREA: Below are listed the large flowered varieties. These are excellent for the average garden and are not difficult to grow. Best in dry sandy soil; they do not flower well if too wet; 10 ft. climber; C-4.



IPOMOEA — Cornell

- Blue Star. **IPOM-1B. 20¢**
NEW. Blue, with white center. Oz. 70¢.
—Candy Pl-k. **IPOM-1CP. 25¢**
New bright pink Ipomoea.
—Cornell. **IPOM-1C. 20¢**
Beautiful cornelian-red, bordered with white; showy. Oz. 75¢.
—Crimson Rambler. **IPOM-1CR. 20¢**
Carmine with white throat. Oz. 75¢.
—Darling. **IPOM-1D. 25¢**
Striking wine-red with snowy white throat.
—Heavenly Blue. **IPOM-1H. 20¢**
Sky-blue shading to golden yellow in its throat; early strain. Oz. 75¢.
—Pearly Gates. **IPOM-1P. 20¢**
Pure white, faint creamy sheen in center. Oz. 80¢.
—Rose Marie. **IPOM-1RM. 25¢**
Only double; deep rose; early.
—Scarlet O'Hara. **IPOM-1S. 70¢**
Dark wine-red; showy; popular. Oz. 80¢.
—Summer Skies. **IPOM-1SS. 20¢**
Large flowered sky-blue.
—White Magic. **IPOM-1W. 20¢**
Large fleecy white, blending to cream in throat.
—Above Mixed. **IPOM-1X. 70¢**
Oz. 60¢; 1 lb. \$5.00. Any above varieties: 80¢ Oz. except as priced otherwise.

OTHER IPOMOEA SPECIES:

- beavensis. **IPOM-5. 30¢**
(I. stictocardia) From E. Africa; TP; cl.
—bona-ay. **IPOM-4. 25¢**
(Calonyction) Moonflower. White fls.
—dissecta. **IPOM-8. 25¢**
Twining perennial; white with purple throat; Texas.
—hederacea superba. **IPOM-10S. 25¢**
Improved form; blue or blue-purple.
—grandiflora. **IPOM-10G. 25¢**
Leaves are striped white in this form.
—hederifolia: see also under *Quamoclit*
coccinea varieties.
—li-dheimii. **IPOM-16. 25¢**
acutatum.
—noctiflora: see *Calonyction*
—setosa. **IPOM-34. 30¢**
Brazilian M. G. Large pink fls; sow seed early; TA.
—Above Species Mixed. **IPOM-X. 25¢**

IRIS

Iridaceae. The species come true from seed but the common garden varieties are hybrids and do not come true. Sow the seeds as soon as ripe or in the spring; they germinate early in spring; C-24; where seed may be a year old, shade bed during summer; keep moist and be sure seed is covered.

- bastardi. **IRIS-21. 30¢**
—Chamaeiris. **I 1S-39. 25¢**
(Pogon) Very pretty; 12"; right after the dwarf Iris; nice colors.
—Chrysographes. **IRIS-13. 40¢**
—Cla-kei. **IRIS-50. 30¢**
Much like siberica; has attractive seed pods.
—Douglasiana. **IRIS-65. 30¢**
Native Calif-Ore; 15"; various colors.
—ensa'a. **IRIS-69. 30¢**
China. Lilac to white; 3 ft.
—Suwarowii. **IRIS-69S. 30¢**
—Peking Form. **IRIS-69P. 30¢**
—fulva. **I 1S-85. 50¢**
Rhizomatous; native Ill; south to Gulf.
—foetidissima. **I 1S-77. 30¢**
Gladwin. Especially grown for its striking pods in fall with its display of scarlet seeds.
—Louisiana, Mixed. **IRIS-150X. 40¢**
Hybrids; large seed.
—missouriensis. **IRIS-167. 30¢**
Pale pink reticulated brown stripe; lime free soil or bog.
—pseudacorus. **I 1S-191. 40¢**
Yellow Flag. May-June; yellow clusters.
—pumila. **IRIS-193. 40¢**
Saved from pumila varieties. Oz. \$2.00.
—siberica. **IRIS-215. 30¢**
Saved from best varieties.
—Snow Queen. **IRIS-215S. 25¢**
Pretty white with Orchid-like fls; extra nice.
—sonquisha. **IRIS-223. 25¢**
—spuria. **IRIS-225C. 30¢**
—cream variety.
—tenax. **IRIS-234. 40¢**
Grassy lvs; fls on 6" stems, varying from orchid-lavender to purple with occasional yellow or navy blue; like miniature Japanese Iris; Oregon.
—varicolor. **IRIS-152. 30¢**
Blue Flag. Lav-blue fls; will stand moist places.
—Yi-hinumi. **IRIS-280. 40¢**
Spanish Iris. From selected plants.

ISATIS. (Y-sah-tis)

Woad, Cruciferae. Annuals, biennials and perennials. They are erect or branching with small yellow flowers from May to July; native of Medit. regions; easy to grow.

- sauca. **ISAT-3. 25¢**
Flowers in yellow clusters; border; 4 ft;

ISOEPSIS: see *Scirpus*.

ISOLOMA. (eye-soh-I-oh-muh)

Gesneriaceae. Tropical plants with creeping roots; scarlet or orange fls; showy; GH; there many hybrids; TP; C-33.

- kohleria. **ISOL-5. 40¢**
(I. hersutum) 4 ft; GH; TP.

ISOPOGON.

Proteaceae. Australian shs with fls in dense cone-like spikes; grown in far South.

- roseus. **ISOP-15. 50¢**
Rose Cone-flower. An attractive Aust. shrub; 2-3 ft.

A charge of 25¢ must be made for Catalog

PLEASE DO NOT USE COMMON NAMES

IXIA.

Iridaceae. S. Af. plants with grass-like lvs; not hardy in N; can be grown in pots in GH same culture as for *Gladiolus*.

—**monodelpha.****IXIA-14. 35¢**

Star-like fls, lilac with red or green basal blotch; 1 ft; May.

—**mixed Species.****IXIA-X. 30¢**

Very early from seed; (VIII).

IXIOLIRION.

(ix-ee-oh-LIHR-ee-on)

Amaryllidaceae. Bulbous Asian plants; mostly basal lvs; blue or violet fls in umbels.

—**montanum.****IXIO-2. 30¢**

(I. Ledebouri) 1 ft; purple fls.

JACARANDA.

(jak-ar-RAND-uh)

Bignoniaceae. Tropical American shrubs and trees; funnelform blue or violet fls in panicles; grown in GH in North.

—**acutifolia.****JACA-1. 35¢**

Fern-like leaves; blue fls, 1½" across; good GH plants; (X); ornamental tree; (J. mimosiolia).

JASIONI.

(jaz-e-OH-nee)

Campanulaceae. Annuals and perennials with sky-blue or white fls borne in heads; useful in border or rockery; easily grown.

—**humilis.****JAS-2. 40¢**

Blue fls in short stalked heads, ½" ac; 9"; HP; Pyrenes.

—**montana major.****JAS-4M. 25¢**

Pale blue fls on heads 1" ac; HB; 1 ft.

—**perennis.****JAS-5. 25¢**

Blue fl-heads, 1" ac; 1 ft; HP; attractive little plants in light blue.

JASMINUM.

(JASS-min-um)

Jasmine. Oleaceae. Very attractive warm region shrubs; very attractive; in the North they are good GH plants.

—**floridum.****JASM-12. 50¢**

Yellow fls ½" ac; many flowered cymes; erect; half evergreen; China.

—**fruticans.****JASM-15. 50¢**

Yellow fls; 9 ft; (VIII).

JATROPHA.

(JAT-roh-hah)

Euphorbiaceae. Tropical plants, shrubs and trees suitable for out door growing in the South.

—**multifida.****JATR-6. 30¢**

Coral Plant. Very striking and showy tr to 20 ft; scarlet fls; lvs finely divided and pretty; tropical Amer; 12 seeds to oz.

JUGLANS.

(JOO-glanz)

Walnut. Juglandaceae. Deciduous trees grown for their nuts, ornament and valuable lumber. Seed best planted in the fall; they can be easily dropped into a small hole made by a cane; plant them near woods and other marginal places; seed can be planted in flats as soon as possible after ripening; place outside till spring when they should be potted singly into deep pots and placed inside where they germinate readily.

—**alanthifolia.****JUG-1. 50¢**

Tree to 60 ft; Japan. **Lb. 90¢.**

—**cordiformis.****JUG-1C. 50¢**

Has heart-shaped leaves; 60 ft; Japan.

—**cineræa.****JUG-4. 50¢**

Butternut. (III); grows along rivers; nut is exceptionally good. **Lb. \$1.50.**

—**nigra.****JUG-10. 40¢**

Black Walnut. Nuts very nice; large tree. **Lb. 75¢.**

—**egia.****JUG-11. 50¢**

English Walnut. Hold seeds over in sand and plant only in the spring; (VII). **Lb. \$1.00.**

—**Sieboldiana.****JUG-14. 50**

70 seeds to lb.

—**cordiformis.****JUG-14C. 50¢**

NOTE: Walnuts seed should be ordered early in summer and then wait for fresh seed. Try planting a Walnut seed here and there in your rambles!

JUNCUS.

Rush. Junicaceae. Glabrous stiffish plants, usually found on low ground.

—**acutifolius.****JUNC-2. 30¢**—**pauciflorus.****JUNI-10. 47¢**—**polyanthemos.****JUNC-13. 40¢****JUNIPERUS**

Juniper. Cupressaceae. Mostly small trees or shrubs; many are very ornamental and other valuable timber. Seed germinates rather slowly unless it has been stored in a mixture of sand and peat, equal parts and left in cold place or outside, protected from the wet. Sow this seed early in the spring when it germinates readily; watch seed late in the winter to prevent seed germinating in which case place in refrigerator at just above freezing; fall sowing is also good.

Seed does not germinate well above 50-55 Fah.

—**chinensis.****JUNI-1. 35¢**

Very ornamental tree; hardy in (IV); best sown in spring. **Oz. 70¢; lb. \$4.00.**

—**aurea.****JUNI-1A. 35¢**—**communis.****JUNI-6. 30¢**

Common Jun. d. b. **Oz. 50¢; lb. \$1.50.**

—**conferta.****JUNI-7. 47¢**

(littoralis) Shore J. Procumbent sh; (IV); Japan. **Oz. 95¢; lb. \$7.50.**

—**horizontalis glauca.****JUNI-15. 35¢**

Blue Creeping Juniper. c. s. **Oz. 60¢; lb. \$2.00.**

—**horizontalis glauc.****JUNI-15G. 35¢**

Blue Creeping J. c. s. **Oz. 2.00; lb. \$12.00.**

—**oxycedrus.****JUNI-23. 35¢**

Prickly Juniper. Shrub to 30 ft; (X). c. s. **Oz. 70¢; lb. \$5.50.**

—**patiphyllæa.****JUNI-24. 25¢**

Alligator Juniper. Tree to 60 ft. c. s. **Oz. 50¢; lb. \$2.50.**

—**phoenicea.****JUNI-26. 35¢**

Shrub or tree to 20 ft; (IX). **Oz. 60¢.**

—**pseudosabina.****JUNI-32. 50¢**

Low shrub; Turkehtan.

—**recurva.****JUNI-34. 50¢**

Tree to 30 ft; Himalayas; (IX).

—**rigida.****JUNI-35. 40¢**

Needle Juniper. Pyramidal shrub to 30 ft; hardy in N; protect form heavy wind. **Oz. 50¢; lb. \$4.00.**

—**scopulorum.****JUNI-39. 40¢**

Silver Juniper. Tree to 30 ft. c. s. **Oz. 90¢ lb. \$8.50.**

—**thurifera.****JUNI-45. 40¢**

Tree to 40 ft; (IX). **Oz. 50¢; lb. 25.75.**

—**utahensis.****JUNI-46. 40¢**

Utah Juniper; (IV). c. s. **Oz. 50¢; lb. \$4.50.**

—**virginiana.****JUNI-48. 25¢**

Red Cedar. Sow seed in spring or they can be stratified as with Junipers. c.s. **Oz. 50¢; lb. \$4.00.**

—**argentea.****JUNI-48A. 40¢**

Leaves and young shoots silvery. **Oz. 60¢; lb. \$4.50.**

Writing letters on your order delays its filling as well as confuses the packer!

KADSURA.

Magnoliaceae. Tropical evs. woody twiners with ornamental berries in fall; (X).

- japonica.** **KADS-2. 40¢**
Yellowish white fls $\frac{3}{4}$ " ac; red berries;
lvs. 4" long; Japan. **Oz. \$1.80.**

KALANCHOE

Crassulaceae. Succulent shrubby perennials with fleshy oval leaves and a mass of brightly colored flowers that last for several weeks. Grown out doors in the South and excellent greenhouse plants in the North. For winter fls start seed in the spring, using a gritty soil; sunshine; plenty of water while growing; C-56.

Seed sown Jan. 1st will be ready for St. Valentine Day a year following; 2 plants eo 4" pot or 3-5 in 4 to 6" pot.

- Bosfeldiana** **KALA-3. 50¢**
Scarlet fls. 1/64 Oz. \$5.00.
—**Fire Blossom.** **KALA-3F. 50¢**
Valuable, floriferous florist plant; large brilliant scarlet blooms, $\frac{1}{2}$ -1" ac. 1/32 Oz. \$5.00.
—**Ernest Thiede.** **KALA-3T. 50¢**
Bright red fls; 1 ft; fine. 1/64 Oz. \$7.00.
—**lanceolata.** **KALA-14. 40¢**
Orange fls on 2 ft stems.
—**thyrsiflora.** **KALA-30. 40¢**
Yellow fls, $\frac{1}{2}$ " long; 2 ft.
—**zambabwensis.** **KALA-38. 40¢**
Orange-red fls in small dense cymes; 1 ft.
—**Mixed.** **KALA-X. 30¢**

KALMIA.

(KAL-mee-uh)

Ericaceae. Most species are hardy in the North; very ornamental evergreen shrub for sandy or peaty soils; lime-free soil; sow seed in pans of sandy peat or milled sphagnum. Sow seed during Feb. in peaty soil; leave seed uncovered; seedlings damp-off easily.

- latifolia.** **KALM-6. 30¢**
Calico Bush; Mt. Laurel. Broad-leaf ev. shrub; mass of pretty pink to white fls; June-July; prefers sandy or rocky soils. c.s. Oz. \$1.25; lb. \$9.50.

KALOPANAX.

Araliaceae. (Acanthopanax).

- pictus.** **KALO-1. 30¢**
Tree to 75 ft; lvs 1 ft. ac; whitish fls in umbels; Japan. **Oz. 75¢; lb. \$5.00.**

KENNEDIA.

(ken-NEED-ee-uh)

Leguminosae. Showy trailing or climbing shrubs native of Australia and hardy to zone (IX). They are also good GH subjects.

- Comptoniana:** see **Hardenbergia.**
—**rubicunda.** **KENN-8. 40¢**
A vigorous climber with large dark red pea-flowers; seed germinates readily if put into hot water before planting; plant to its permanent location early as it forms very vigorous roots early in life.
—**prostrata.** **KENN-10. 30¢**
Prostrate legume; very choice; pinkish red fls all summer; beautiful lvs; (VIII); good in hanging baskets.

KENTIA.

(KEN-te-ah)

Palmaeaceae. The genus has been broken up much of late. Listed here are the common trade names; C-45.

- Belmoreana:** see **Howea.**
—**Forsteriana:** see **Howea Forsteriana.**

KERRIA.

(KEHR-ree-uh)

Rosaceae. Popular Chinese deciduous

shrubs with green stems; ornamental; hardy in the North.

- jap-nica.** **KEKR-1. 30¢**
Golden yellow fls 2" ac; easy from seed. **Oz. 75¢; lb. \$5.00.**

KIGELIA.

Bignoniaceae. Trees of tropical Af; (XI); fls bell-shaped, orange or red; 2-lipped; in drooping panicles.

- pinnaia.** **KIG-5. 40¢**
Sausage Tree. S. Af. tree; to 50 ft; claret fls, 3" long; curious fruits.

KNAUTIA.

Dipsaceae. Perennials with long stalked heads of fls, similar to Scabiosa.

- drymeia.** **KNAU-4. 30¢**
Reddish violet to purple fls in heads, 2" ac; 3-4 ft; Balkans; (IV).

KNIGHTIA.

Proteaceae. N. Z. trees and shrubs hardy in (X) zone.

- excelsa.** **KNIG-2. 50¢**
Tall handsome tr; distinctive upright growth; fol strong and leathery; fl buds are dark reddish velvet, opening red; timber is valuable; fine street tr and attractive to birds; 30-60 ft; (X); N. Z.

KNIPHOFIA

Tritoma, Torch Lily, Poker Plant. Liliaceae. Most striking garden plant flowering in the fall, with their dense cigar-shaped spikes of red or yellow tubular flowers. Seed sown indoors very early will flower same season; in severe climates the plants can be dug up and wintered over in a frost-proof cellar.

- Empress.** **KNIP-1M. 25¢**
(Stark's Early Hybrid). $\frac{1}{4}$ Oz. 60¢.
—**Pfitzer's Hybrids.** **KNIP-1P. 25¢**
Large brilliant reds; HP. $\frac{1}{2}$ Oz. 90¢.
—**Early Hybrids.** **KNIP-1E. 25¢**
California grown strain; early.
—**mirabilis.** **KNIP-1Y. 30¢**
Yellow..... $\frac{1}{4}$ Oz. 60¢.
—**G" Fl.** **KNIP-19G. 35¢**
Fiery red with yellow. $\frac{1}{4}$ Oz. 60¢.
—**Uvaria Hybrids.** **KNIP-18. 25¢**
Fiery red with yellow. **Oz. 1.50.**
—**tuckii, May Queen.** **KNIP-1O. 35¢**
Early; dark rose fls with cream yellow.
—**verricrea Hybrids.** **KNIP-1R. 25¢**
Creamy white and coral-red fls; HP.
—**zombensis.** **KNIP-21. 35¢**
From S. Rhodesia; red and yellow hds; grows in swamps, very nice; tall.
—**Kniphofia Mixed.** **KNIP-X. 20¢**

KOCHIA.

(KOH-kee-uh)

Summer Cypress. Chenopodiaceae. Popular hedge or border plants; the foliage turns red in the fall; tender annuals; start indoors in March or outside in May; for well-shaped plants keep thinned; C-7.

- scoparia v. trichophila.** **KOCH-2T. 20¢**
Summer Cypress; Belvedere. This is usually listed as **K. Childsii**. Globular dense bushes of medium green turning red after a frost; makes nice hedges or specimen plants; plant 3-5 seeds in 3" pot, thin to one in April; 2-3 ft; space 18"; HA. **Oz. 45¢.**

KOELREUTERIA.

(kel-roo-TEER-ee-uh)

Sapindaceae. Trees native of Japan and China; they are very ornamental; fls in terminal panicles.

- paniculata.** **KOEL-6. 25¢**

Golden Rain Tree. (IV); seed can be planted in the fall or stratify and plant in the spring **Oz. 75¢; lb. \$2.00.**

KOLKWITZIA. (kol-KWITS-ee-uh)
Caprifoliaceae. Showy Chinese shrubs hardy in N; 9 ft; seed requires freezing. so plant in fall if possible; spring sowing soak seed and freeze before placing in soil.

—**amabilis.** **KOLK-1. 30¢**
Beauty Bush. Very showy Chinese deciduous shrub; 8 ft; (IV); bell-shaped pink fls; May-June.

KOSTELETSKYA.

Malvaceae. Similar to Hibiscus with arrow-shaped lvs; fls in pink, purple and white.

—**virginica.** **KOST-5. 40¢**
Pink fls, 2½" ac in terminal panicles; 4 ft; (IV); HP.

KRAZIA.

—**longiflora.** **KRAI-12. 60¢**

LABURNUM.

(lab-BURN-um)
Leguminosae. Ornamental shrubs and trees, most of which are hardy to (IV) zone. Sow seeds thinly and press into soil; Feb.

—**alpinum.** **LABN-2. 50¢**
Scotch Laburnum (Cytisus alpinum); VII.
—**anagyroides.** **LABN-4. 50¢**
Golden Chain; Bean Tree. (VII). **Oz. 60¢.**
—**Mixed.** **LABN-X. 30¢**

LACTUCA.

(lak-TEW-kuh)
Tall annuals and perennials of which only a few have ornamental value. The garden Lettuce belongs to this genus.

—**Bourgei.** **LACT-2. 35¢**
Flower bracts and rays lilac or blue; 6 ft; HP.

LAGERSTROEMIA. (lay-gur-STREM-ec-ah)

Lythraceae. Ornamental trees and shrubs with showy flowers in panicles followed by capsular fruits. Grown out doors in the South or as pot plants in the North.

—**indica Hybrids.** **LAGR-2. 25¢**
Crape Myrtle. (VIII). c.s. **Oz. 75¢; lb. \$3.00.**

—**speciosa.** **LAGR-3. 40¢**
(Flos-Reginae) Queen C. M. Showy tr; (IX). ½ **Oz. 75¢.**

—**Rose.** **LAGR-3Z. 40¢**
Queen of Flower. (IX). **Oz. 85¢.**

—**Double Pink.** **LAGR-3P. 40¢**
Oz. \$1.75.

—**White.** **LAGR-3W. 40¢**
Rare. **Oz. \$2.00.**

—**tubinata.** **LAGR-4. 50¢**
—**Mixed.** **LAGR-X. 30¢**

LAGUNARIA.

(lag-yew-NAY-ree-uh)
Malvaceae. One native tree from Australia; hardy up to (IX) zone.

—**Patersonii.** **LAGU-1. 30¢**
(L. patersonii; fugosia) Lovely pink fls. even on young plants; beware of the sharp hairs inside the fruits; (X). 100 sds \$1.25.

LAGURUS.

(lag-YEW-rus)
Gramineae. One ornamental annual grass.

—**ovatus.** **LAGS-1. 25¢**
Hares-Tail Grass. Attractive plume-like spikes; sow in open ground in April; to dry cut immediately after the fls open; HA; 1 ft; July-Sept; space 6".

LAMPRANTHUS.

Upright shrub with long, nearly cylindrical lvs; fls usually in masses, in large white yellow, rose to violet; nice ornamental growth; excellent room plant; place in full sun in open during summer.

—**amoenus.** **LAMP-4. 50¢**
Pale magenta fls; 3 ft.

—**aureus.** **LAMP-6. 50¢**
Nice; golden yellow fls.

—**blandus.** **LAMP-8. 50¢**
Prostrate; magenta fls.

—**conspicuus.** **LAMP-15. 50¢**
Rich magenta fls; nice; prostrate.

—**glaucus.** **LAMP-29. 50¢**
Yellow fls; good; 1 ft.

—**roseus.** **LAMP-40. 50¢**
Rose shades; dandy; 1 ft.

—**spectabilis.** **LAMP-43. 50¢**
Low growing; magenta fls.

LANTANA.

(lan-TAY-nuh)
Verbenaceae. Showy and easily grown; good pot plants or for bedding; sow seed indoors March 1st in a warm house; TP; space 1 ft. apart; C-12.

—**Bruni's Dwarf Hybrids.** **LANT-8B. 30¢**

LANTERN PLANT, Chinese: see *Physalis Alkekengi*.

LAPEIROUSIA.

(lap-ay-ROO-zee-uh)
Iridaceae. Cormous plants native of S. Af. and with some protection are hardy in the (IV) zone.

—**cruenata.** **LAPE-4. 30¢**
Hardy in (IV); African cormous plant.

—**Sandersonii.** **LAPE-12. 40¢**
Hardy (IV).

LARIX.

(LAR-ix)
Larch. Pinaceae. Showy deciduous trees native of cold regions; best grown from seed.

—**decidua.** **LAR-2. 35¢**
European Larch. Keep seed dry; sow in the spring. **Oz. 50¢; lb. \$3.50.**

—**leptolepis.** **LAR-8. 35¢**
Japanese Larch. **Oz. 90¢.**

—**occidentalis.** **LAR-12. 30¢**
Western Larch. (Montana) c. s. 75¢ oz;

LARKSPUR

Ranunculaceae. The annual *Delphiniums*. While biennial they are grown as annuals; sow seed in cool weather — they do not germinate good if the temperature is above 60 degrees F; expose to the light when in seed pans. In the South they should always be planted in the fall; especially good for cut-flowers.

GIANT IMPERIAL: Tall, upright, compact basal branching in habit and very popular for cutting; 4-5 ft.

—**Blue Bell.** **LARK-3B. 20¢**
A beautiful mid-blue color.

—**Blue Spire.** **LARK-3S. 20¢**
Deep Oxford-blue.

—**Carmine King.** **LARK-3C. 20¢**
Improved deep carmine-rose; holds color.

—**Dazzler.** **LARK-3D. 20¢**
A rich scarlet.

—**Exquisite Rose.** **LARK-3R. 20¢**
Fine rose-pink; deep.

—**Los Angeles.** **LARK-3L. 20¢**
Brilliant pink on salmon.

—**Miss California.** **LARK-3M. 20¢**
A deep rose on salmon.

—**White King.** **LARK-3W. 20¢**
Pure white.

—**Mixed.** **LARK-3X. 15¢**

PRINT THE SYMBOLS WHEN ORDERING

Any of the Above: Oz. 90¢; lb. \$6.50.

LATANIA.

(lat-TAY-nee-uh)

Palmaceae. Fan-palms hardy in the (X) zone; C-45.

—**Cameronii.****LATA-3. 50¢**

(*L. borbonica*, *Livistona chinensis*) Palm. 100 seeds \$3.00; 1,000. \$7.50. Delivery as new seeds arrive; order early.

—**Loddigesii.****LATA-4. 70¢**

10 seeds \$2.40; 100 seeds \$10.00. Delivery as fresh seeds arrive.

LATHYRUS.

(LATH-ee-rus)

Perennial Sweet Pea. Leguminosae. They require no special care; rather erect vines and do well on low supports or embankments; (IV); keep pods picked off for longer blooming period; HP.

—**cyaneus.****LATH-7. 30¢**

Herb; deep blue fls; sun; well drained soil; 12"; HP.

—**latifolius.****LATH-16X. 25¢**

Perennial Pea. Vine to 9 ft; white, red and rose fls; HP; C-23. Oz. \$1.50.

—**Rose.****LATH-16P. 25¢**—**Red.****LATH-16R. 25¢**—**White Pearl.****LATH-16W. 25¢**—**tuberosus.****LATH-53. 40¢**

Cl or tr; 4 ft; rose fls; roots edible; HP.

—**vernus.****LATH-55. 30¢**

(Orobe) Spring Vetchling; 2 ft; HP.

LAURELIA.

Monimiaceae. Tall aromatic trees native of Chile and New Zealand; hardy in (X) zone.

—**novae zelandiae.****LAUL-2. 50¢**

Tall forest tree but attractive shrub when young; moisture and shade; (X); N. Z.

LAURUS.

(LAW-rus)

Laurel, Sweet Bay. Lauraceae. In a rich peaty soil with plenty of moisture they can be grown in the (VIII) zone; they are pretty medium-sized trees.

—**camphore.****CINN-2. 30¢**

(*Cinnamomum Camphora*) Sweet Bay; Laurel. (X); fresh seed best. d.b. Oz. 60¢; lb. \$3.00.

—**glandulifera:** see *Cinnamomum glanduliferum*.

—**nobilis.****LAUR-5. 25¢**

Evergreen tr to 40 ft; the true Laurel of the florist; yellow fls. c.s. Oz. 75¢; lb. \$1.75.

LAVANDULA.

(lav-VAN-dew-lah)

Lavender. Labiatae. Aromatic herbs that can be grown in (IV) zone with protection.

—**hybrids, Mixed.****LAVA-4X. 25¢**—**officialis.****LAVA-7. 30¢**

Sub-sh to 3 ft; (also listed as *L. spica* and *L. vera*); (IV). Oz. \$1.00.

—**spica.****LAVA-7S. 25¢**

Broad leaf; 3 ft; HP; purple-blue fls; much liked by birds; lvs don't fall in the winter; must be transplanted every 4-5 yrs.

—**vera.****LAVA-7V. 25¢**

(True) HP; dwarf compact habit; purple-blue fls; RG; bees like it; stands frost better than *L. spica*; transplant every 4-5 years; medicinal herb.

—**All Mixed.****LAVA-X. 25¢****LAVATERA.**

(lav-AT-TEER-uh)

Tree-Mallow. Malvaceae. Showy and very easily grown annuals. They are excellent for bedding or for cutting; C-23.

—**arbores.****LAVT-3. 25¢**

Sh to 10 ft; pale purple-red fls; (IX); HB. ½ Oz. 50¢.

—**assurgentiflora.****LAVT-5. 25¢**

Calif. Windbreak. Sh to 10 ft; rose-purple fls; (IX). Oz. 50¢.

—**cochemiriana.****LAVT-6. 40¢**

Pink fls, 1½" long; HP; Himalayas.

—**thuringiaca.****LAVT-14. 30¢**

Rose-pink, 2½ inches across; HP.

—**trimestris v. Loveliness.****LAVT-15L. 25¢**

One of the loveliest of all annuals, in a rich shade of rose; blooms over a long period; 5 ft; best to sow middle of April where they are to grow; C-1. Oz. 60¢.

—**White.****LAVT-15W. 25¢**—**splendens.****LAVT-15S. 25¢**

Rose fls. ½ Iz. 40¢.

—**Mixed.****LAVT-15X. 20¢**—**Oz. 50¢.****LAVT-X. 20¢**—**All Mixed.****LOXOGRAMME.**—**immersa.**—**involuta.****LAYIA.**

(LAY-ee-uh)

Compositae. Early blooming annuals with yellow or white ray and disk fls in terminal heads; easy; best in a dry sunny place.

—**elegans.****LAYI-5. 30¢**

Tidy Tips. Early flowering; low growing; HA; daisy-like yellow fls tipped white; sow in April and in succession thru May and June; do not bury seeds too deep; July-Sept; space 1 ft.

LEDUM.

Ericaceae. Low ev. shs found in moist places and sphagnum bogs; moist sandy, peaty soil.

—**palustre v. nipponicum.****LEDU-8N. 40¢**

Crystal Tea, Wild Rosemary.. 3 ft; (III). Oz. 80¢.

LEEK: see *Allium porrum*.

LEIOPHYLLUM.

(lye-oh-FILL-um)

Ericaceae. Sand Myrtle. N. Am. low ev. shrubs with fls in terminal corymbs, followed by fruits; border or RG; in peaty or sandy loam; sow seeds in cold frame, lime-free soil.

—**buxifolium.****LEIO-1. 30¢**

Box Sand Myrtle. Very nice 1 ft sh; ev. gr. myriads of little white fls in spring.

LEMAIREOCEREUS.

Cactaceae. Tree or shrub-like; used in tropical regions for their edible fruit; not common; very attractive; rich soil with a gravelly sand.

—**Beneckii.****LEMA-5. 60¢**

(*Cereus farinosus*) A beautiful species.

—**Chichepe.****LEMA-12. 50¢**

To 15 ft; tree-like with 3 ft diam trunk; small yellowish green fls; Mexico.

—**Dumortieri.****LEMA-20. 50¢**

Tree-like, to 50 ft; white fls, 2" long; Mex.

—**griseus.****LEMA-27. 50¢**

(*eburneus*) To 20 ft; pinkish fls, 3" long.

—**Hollianus.****LEMA-29. 50¢**

To 15 ft; white fls 4" long; Mexico.

—**marginatus v. oaxacensis.****LEMA-35A. 50¢**

Organ-pipe Cactus. To 30 ft; 6" diam; fls 2" long; Mexico.

—**stillatus.****LEMA-44. 50¢**

t6 red, bell-shaped fls, 1½" long; Mexico.

—**Thurberi.****LEMA-47. 50¢**

20 ft; 8" diam; fls light purple with white margin; Mexico.

—**Treasei.****LEMA-49. 50¢**

To 20 ft; pinkish fls 2" long; Mexico.

—**Weberi v. candelabrum.** **LEMA-52C. 40¢**
To 30 ft; Mexico.

LEONOTIS. (lee-on-NOH-tiss)

Lion's Ear. Labiatae. Annuals and perennials or shrubs grown in the far S or in the GH in N, where they can be set out doors during the summer.

—**dysiphylia.** **LEON-3.** 30¢

Small leaves; orange-brown whorls; 7 ft; HHP.

—**axifolia.** **LEON-5.** 30¢

Bronze fls in whorls; 5 ft; HHP.

—**Leonurus.** **LEON-6.** 30¢

Showy red-yellow or orange-red fls; 6 ft; seed sown in Jan. fls in fall; good for pot culture; TP.

LEPACHY: see **Ratibida.** Coneflower.

LEPIDUM.

Pepper Grass. Cruciferae. Used mainly as a salad grass. See Cress.

—**sativum.** **LEPI-8.** 25¢

Cress; Peppergrass. Fast growing spicy HA; invaluable for salads and as garnish; sow early. **Oz.** 50¢; **lb.** \$2.00.

LEONTOPODIUM. (le-on-toh-POH-de-um)

Compositae. Low herbaceous tufted and woolly perennials; leaves basal; fls in small heads; C-23-24.

—**sibericum.** **LEOT-5.** 40¢

Edelweiss. Fine rockery or indoor pot plant; sandy soil; HP. ¼ **Oz.** \$2.00.

LEPTOSPERMUM. (lep-toh-SPERM-um)

Tea Tree. Myrtaceae. Valuable for their wealth of flowers; grown out doors in S; (X). They make good GH subjects; C-23-24.

—**hymonophylloide.** **LEPP-3.** 35¢

—**flavescens.** **LIPP-3.** 30¢

Tall shrub with fls ½" ac; Australia.

—**laevigatum.** **LEPP-4.** 30¢

Coast Tea-Tree. 12-20 ft; gray lvs; white fls; good wind break; (IX); germination best at around 50 Far then at 85 alternating or on year-old seed at 70. **Oz.** \$3.00.

—**rotundifolium.** **LEPP-7.** 35¢

Tea Myrtle. 8 ft; hardy in South. Aust.

—**scoparium.** **LEPP-8.** 40¢

White to pink fls, ½" ac; 6-8 ft; (IX); N. Z.

—**grandiflorum.** **LEPP-8G.** 25¢

Has large pink or nearly white fls.

—**Martini.** **LEPP-8M.** 40¢

Much like Keatlayii in appearance; more bronzy fol; fls large, deep rosy red; very attractive; 6 ft.

—**Nichollsii.** **LEPP-8N.** 40¢

Bronzy leaves; carmine fls; N Z.

—**Walkerii.** **LEPP-8W.** 40¢

White to deep pink fls; hybrid; popular in N. Z.

—**Mixed.** **LEPP-8X.** 30¢

—**All Mixed.** **LEPP-X.** 25¢

LEPTOSIPHON: see **Gilia.**

LEPTOSYNE. (lep-toh-RYE-nee)

Compositae. California natives; by some listed with Coreopsis; best treated as a hardy annual up to zone IV.

—**Golden Rosette.** **LEPS-1.** 25¢

Double bright yellow fls; see also under Coreopsis; (C. Stillmanii); C-7. ½ **Oz.** \$1.00.

LESCHENAULTIA.

Goodeniaceae. Aust. Heath-like plants and shrubs; hardy in X zone.

—**biloba.** **LESC-3.** 50¢

Famed Australian blue flowered shrub; does well in poor sandy soil; intense blue fls; 2 ft.

LESPEDEZA. (les-ped-DEEZ-uh)

Leguminosae. Ornamental plants and shrub hardy in the North. The Clovers of the mid-south belong to this genus.

—**Buergeri.** **LESP-4.** 30¢

Purple to white fls in racemes; July-Sept; Japan. **Oz.** 90¢.

—**bicolor.** **LESP-2.** 50¢

10 ft. sh; purple fls; July-Oct; Japan.

Lb. \$1.75.

—**striata.** **LESP-17.** 50¢

Japanese Clover. HA; to 18"; forage crop in the South.

LEUCADENDRON. (lew-kad-DEN-dron)

Proteaceae. S. Af. trees and shrubs; hardy in (X) zone and grown in GH in N.

—**abscondens.** **LEUD-3.** 50¢

Yellow bracts; variable in height; S. Af.

LEUCAENA. (lew-SEEN-uh)

Leguminosae. Ornamental shrubs and trees for warm sections; the fruits are edible.

—**pulverulenta.** **LEUA-3.** 30¢

—**retuca.** **LEUA-5.** 40¢

LEUCOTHOE. (lew-KOTH-oh-se)

Ericaceae. Best in a moist peaty, sandy soil; require some winter protection in the N. they are nice shrubs; follow culture directions under Rhododendron in sowing seeds.

—**Catesbaei.** **LEUC-3.** 30¢

White racemes; 6 ft.

—**Davisiae.** **LEUC-4.** 30¢

Evergreen shrub; 3½ ft.

LEUCHTENBERGIA.

Cactaceae. One small tufted Cactus; Mex.

—**principis.** **LEUG-3.** 60¢

8"; tap-root; fls yellow, fragrant; to 4' across.

LEUCOSPERMUM.

Proteaceae. S. Af. shs; they can be grown out doors in the S. Moist sandy, peaty soil.

—**nutans.** **LEUS-9.** 50¢

Brick-red pin cushions. Seed \$5.00 -100.

—**reflexum.** **LEUS-18.** 50¢

Striking orange-red heads; 10 ft. 100-\$6.50.

LEUCOJUM. (lew-KOH-jum)

Snowflake. Amaryllidaceae. Hardy bulbous plants of low growth; RG; bulbs can be had—see Bulb List.

—**autumnale.** **LEUC-3.** 40¢

Autumn Snowflake White flushed pink; Aug.-Oct; 5"; HbB.

—**nicaense.** **LEUC-5.** 60¢

(hiemale) Rare and very choice; nodding white fls in April.

LEUZZA. (LEW-zee-uh)

Compositae. Biennials and perennials; purple fl-heads of disk-fls; probably hardy in (VIII) zone.

—**Conifera.** **LEUZ-3.** 35¢

Flower heads cone-like, 2" long with showy scales; 1 ft; HP.

LEVISTICUM. (lev-VIST-ik-um)

Lovage. Umbelliferae. Herb for its aromatic fruits used in candy, etc; very ornamental.

—**officinale.** **LEVI-1.** 25¢

Lovage. Grows to 6 ft; fls greenish yellow; germination is seldom read good; sow early; HP. **Oz.** 90¢

We are always interested in the source of any seeds not listed—in many that are.

LEWISIA. (lew-ISS-ee-uh)

Portulacaceae. Natives of N.W. Amer. the flower is very pretty; does best in a deep loose gritty soil, 1 part loam, 2 of peat moss 3 parts very coarse sand; moist in spring but dry during the summer; seed can be frozen before planting.

—*howellii*. **LEW-12.** 50¢
Deep rose fls; 6"; Ore; HP.

NOTE: We should be able to offer more species but the delivery of seed is very uncertain. For this reason species offered last year will be skipped in this issue.

LIATRIS

Blazing Stars; Gay Feather. Compositae. Perennials, very pretty all summer and into the autumn, especially when massed in the border; fls are in spikes or racemes; easily grown from seed which is better after a cold spell; C-24.

—*calilepsia*. **LIAT-2.** 25¢
Purple fls; HP.

—*cylindracea*. **LIAT-4.** 25¢
To 1½ ft; fls in loose spikes; (IV); HP.

—*glabrata*. **LIAT-7.** 35¢
(Squarrose v. *glabrata*) Found in sandy soils in Texas.

—*praecox*. **LIAT-13.** 20¢
Collected in Austria.

—*punctata*. **LIAT-14.** 30¢
Purple fls in dense heads; 18"; Nebr; HP.

—*pycnostachys*. **LIAT-15.** 30¢
Cat-tail Gayfeathers Purple fls in dense spikes; sun; 3-5 ft. **PLANTS:** 75¢; 3-**\$1.60.**

—*scariosa*. **LIAT-16.** 25¢
Purple fls; tipped purple; 6 ft; HP; C-23.

—*spicata*. **LIAT-17.** 25¢
A pretty species. ½ Oz. **\$1.25.**

PLANTS: 45¢ each; 3 for **\$1.30.**

—*spicata*. **LIAT-17.** 25¢
Dense spikes of purple fls; 6 ft; HP; C-23.

Spiked Gayflower; ½ Oz. 85¢. **PLANTS:** 50¢ each; 3 for **\$1.30.**

—Mixed Species. **LIAT-X.** 20¢

LIBERTIA. (lib-BERT-ee-uh)

Iridaceae. Australian and N.Z. natives; hardy in the S; seldom offered.

—*caerulescens*. **LIBE-1.** 30¢
Hardy in the South; blue fls; N.Z. per.

—*grandiflora*. **LIBE-3.** 40¢
White fls; small capsules; brown or yellow cord; decorative.

—*ixioides*. **LIBE-5.** 35¢
A N.Z. woodland flower; 2 ft; white, 1" ac; lvs 1 ft long; like miniature flax; gold lv

—Species. (?) and Mixed. **LIBE-X.** 25¢

LIBOCEDRUS. (lye-hoh-SEED-rus)

Incense-Cedar. Cupressaceae. Evergreen trees related to the Thuja; attractive but not hardy very far North.

—*decurrens*. **LIBO-4.** 35¢
Incense Cedar. (IV); best sown in the fall.

stratify in moist sand for 1-2 months at 40 F, is good; cover seed ¼-½ inch. **Oz.** 50¢; lb. \$2.00.

LIGHTFOOTIA.

—*glomerata*. **LIGH-1.** 25¢

LIGULARIA. (lig-u-LAY-re-ah)

Compositae. Herbaceous perennials with broad basal leaves attractively marked and with many yellow ray-fl heads in racemes or corymbs on 5 ft. stems; easy; border.

—*clivorum*, Orange Queen. **LIGU-1Q.** 25¢
Heads 4" ac and a pretty orange; 5 ft; HP; C-23.

LIGUSTRUM. (lig-GUST-rum)

Privet. Oleaceae. Well known shs used much as hedges; some species are very showy shrubs; sow seed in fall or stratify for spring

—*Iboia*. **LIG-10.** 40¢
—*japonicum*. **LIG-14.** 25¢

c. s. Oz. 50¢; lb. \$1.50. **LIG-14R.** 25¢
—*rotundifolium*. (coriaceum) d.b. Oz. 50¢; lb. \$2.00.

—*variegatis*. **LIG-14V.** 25¢
d.b. Oz. 50¢; lb. \$2.00.

—*ovalifolium*. **LIG-21.** 25¢
d.b. Oz. 50¢; lb. \$1.60. (Calif. Privet)

—*lucidum*. **LIG-17.** 35¢
Glossy Privet. Ev to 25 ft; fls in 10" panicles in Aug-Sept; Korea.

—*Quihoui*. **LIG-22.** 35¢
Fls in 8" panicles; Aug-Sept; China; 6 ft; (VIII); shrub.

—*sinense*. **LIG-25.** 25¢
d.b. Oz. 50¢; lb. \$1.60.

—*vulgaris*. **LIG-28.** 30¢
(vul-GAY-rah) Common Privet. c.s. Oz. 50¢; lb. \$3.00.

LILCOXIA. **LILC-1.** 50¢
—*albiflora*. **LILC-15.** 50¢
—*Poselgeri*.

LILIUM

Lily. Liliaceae. Growing Lilies from seed has become very popular. If type of germination is followed, they are easily grown, besides their hybridizing is of special interest and rewarding. We would like to hear from those growing species to any extent

(A) Sow seeds of these species, in March or April, out doors, or earlier indoors; germinate in 3-5 weeks; transplant to nursery row. Can also be treated as in (B).

(B) Start in frame or greenhouse in early spring or out doors in the South; germinate in 3-6 weeks; carry seedlings over in frame or cool house the first winter, transplanting them out in the spring.

(C) Plant out door April-June in a well-made seed bed; germinates in 2-5 months with no top growth showing the first season; transplant the 2nd year; epecolyl dormancy.

(D) Plant out doors in late fall, Nov-Dec, in well-prepared seed bed; germination and top-growth the 2nd spring; transplant the 3rd or 4th year, according to growth.

(E) Usually hybrids and variable as to treatment; any special notes are mentioned in their description.

—*amabile*. **LILY-2.** 25¢
Turk's Cap Red with dark spots; 3 ft; A.

—*luteum*. **LILY-2L.** 30¢
A yellow form; A.

—*auratum*. **LILY-4.** 30¢
Gold Banded. Bowl-shape fls; 4-6 ft; C.

—*A. x Red Auratum*. **LILY-4R.** 50¢
A highly compatible cross and produces type, pink and reds; both pinks and reds are produced in true form; seed produced by Harrisons in New Zealand and is very choice.

—*A. x rubro-vittatum*. **LILY-4V.** 50¢
Another of Harrison's valuable crosses; New Zealand Lilies are tops any where in the world.

—*platyphyllum*. **LILY-4P.** 50¢
White fls spotted crimson.

—*Aurelian Hybrids*. **LILY-47A.** 30¢
EA.

—*Backhouse Hybrids*. **LILY-47B.** 30¢

- E.**
—bulbiferum. LILY-10. 50¢
 Orange-red, spotted with purple-black with yellow centers; 4 ft.
—ca. dense flavum. LILY-13F. 30¢
 Lemon-yellow; 5 ft; C.
—rubrum. LILY-13R. 40¢
 Orange-red flowers; C.
—ceruleum. LILY-20. 30¢
 Lilac spotted purple; nodding; 2 ft; A.
—concolor. LILY-24. 30¢
 Star L. Vermilion; erect; 4 ft; A.
—cordatum. LILY-25. 40¢
 White striped purple; erect; 4 ft; D.
—Crow's Hybrids. LILY-47W. 25¢
 (Friedmann Strain) Trumpet; huge cream; 5-6 ft; A.
—dauricum. LILY-32. 30¢
 Candlestick L. Orange-red, spotted; 3 ft; Siberia; A.
—Davidii. LILY-33. 30¢
 A refined Tiger Lily; 6 ft; A.
—Willmottiae. LILY-33W. 30¢
 Orange-red, dotted black; recurved fls; 3-5 ft; A.
—formosanum. LILY-39. 30¢
 Late trumpet; white; 8 ft; A.
—Formo-longi. LILY-47FL. 50¢
 (NEW) Cross between giganteum and formosanum; white trumpets of great substance; highly scented and blooms in 6-8 months from seed.
—giganteum. LILY-40. 40¢
 Late; huge white fls; 10 ft; D. ½ Oz. \$4.00.
—himalaicum. LILY-40H. 35¢
 White; huge woodland Lily; 10 ft; D. ¼ Oz. \$8.00.
—Ferryi. LILY-45. 30¢
 Golden Specieum. Recurved; soft golden orange; 6-8 ft; A.
—holla-dicum. LILY-46. 35¢
 Up-facing, bowl type; many forms; 2-3 ft; EA.
—Red B'd. LILY-47 B. 25¢
—japonicum. LILY-59. 40¢
 Trumpet; pink; 2-4 ft; C.
—Kellougii. LILY-51. 40¢
 Pink, spotted with purplish black; erect; 4 ft; Calif; C.
—Leichtlinii Maximowiczii Wadal. LILY-58MW. 50¢
 Early Tiger type; recurved; 6 ft; A.
—Lillian Cummings. LILY-47LC. 25¢
 Bright orange-red; 4-5 ft; EA.
—longiflorum. LILY-55. 30¢
 New Japanese form; choice GH Lily.
—insulare. LILY-55L. 50¢
 An improved strain grown in Japan.
—Lyla McCann. LILY-47LM. 25¢
 Medium Recurved; golden orange; EA.
—longiflorum, White Queen. LILY-55O. 30¢
 For GH growing sow seed Jan. 1st and hold over summer outside in cloth house then into GH in the fall, makes good cut fls; grow in pots or on bench.
—macrophyllum; see Notholirion m.
—Markham Hybrids. LILY-47B. 30¢
 Martagon album x Hansonii; yellow; 4 ft; E. ½ Oz. \$1.20.
—Martagon. LILY-59. 25¢
 Turk's Cap L. Rose or dark purple; 6 ft; C.
—Maxwell. LILY-47MX. 25¢
 Bright orange, spotted red; recurved; 5 ft; A.
—medeoloides. LILY-62. 40¢
 Wheel L. Apricot to scarlet; recurved; 3 ft; A.
—michiganense. LILY-65. 50¢
 Recurved segments mostly red like L. canadensis.
—album. LILY-96A. 30¢
—Palmer's Hybrids. LILY-47M. 30¢
 Named varieties mixed; A.
- Preston Hybrids.** LILY-47P. 30¢
 Named varieties; recurved; 3-5 ft; A.
—regale. LILY-95. 30¢
 Royal L. Lilac or purple outside, white within yellow base; horizontal; 5 ft. Oz. \$2.50; lb. \$18.00.
—rubellum. LILY-99. 50¢
 Small rose-pink; funnel-shaped; 1-2 ft; C.
—Sargentiae. LILY-105. 30¢
 Rose-purple outside, white inside; 6 ft; A.
—S. x centifolium; A. LILY-105C. 30¢
—skkimensis. LILY-108. 25¢
—speciosum. LILY-110. 50¢
 Showy Japanese L. White, suffused rose; E.
—Kraetzeri. LILY-110K. 30¢
—magnificum Hybrids. LILY-110M. 40¢
—punctatum. LILY-110P. 30¢
—sutchuense. LILY-114. 50¢
—tigrinum. LILY-119. 50¢
 Tiger L. Japan grown seed; orange or salmon-red fls; E.
—Tsingtanense. LILY-120. 50¢
 Small upright; brown or mahogany fls; 1-3 ft; A.
—Mixed (A) germination. LILY-AX. 35¢
—Mixed (B) germination. LILY-BX. 35¢
- LILY TURF: see Liriope spicata.** A pretty rocky plant.
- LIMNANTHES.** (lim-NANTH-eez)
 Meadow Foam. Limnnanthaceae. Small annuals of easy culture and nice for the flower border; seed can be sown in Sept. or early spring; likes moist soils.
—Douglasii. LIMN-1. 30¢
 Meadow Foam. Flowers very quickly after sowing; 1 ft; coverer with showy fls, 1" ac; HA; space 5 in. apart; C-1.

LIMONIUM

Statice; Sea-Lavender. Plumbaginaceae. A highly prized flower both for the border and for commercial growing; many in this genus were formerly under Statice. They make excellent everlasting flowers; sow the



LIMONIUM BELLIDIFOLIA

annuals early in the spring and the perennials up to August.

Cut all Limoniums with long stems for drying.

L. SINUATUM: Biennials and perennials best grown as a HA; lvs form low rosettes at base of the stiff angular branching flower stalk; useful for dried fls, cutting or in the border; C-21.

These are excellent for drying; HHA; space 1-1½ ft; Aug-Oct; 1-2 ft high.



LIMONIUM SINUATUM

- Kampf's Blue. LIMO-32K. 25¢
An improved blue for market.
- Market Rose. LIMO-32Z. 25¢
- Market Grower's Blue. LIMO-32G. 25¢
A fine deep blue selection.
- Marktkönigin. LIMO-32M. 25¢
A new German strain in a perfect blue.
- rosa superba. LIMO-32AS. 25¢
True; best pink.
- New Art Shades. LIMO-32AS. 25¢
New strain for 1956 season.
- True Blue. LIMO-32C. 20¢
A California grown strain.
- Above Mixed. LIMO-32X. 20¢
PRICE: All above Oz. 45¢; lb. \$2.75.

OTHER SPECIES:

- beulidolia. LIMO-2. 25¢
Grand in late summer; sprays of lavender
fls; 9"; HP.
- Bondeilii. LIMO-4. 25¢
Fine yellow flowered species; Aug-Oct;
18" space 1-1½ ft; HA or HB.



LIMONIUM PERESII

- Caspia. LIMO-6. 30¢
Lilac fls in large heads of bloom. Oz. 90¢.
- casyrenes. LIMO-6. 50¢
A miniature edition for scree; 3 inches.
- dumosum. LIMO-7. 25¢
Giant heads of silvery gray fls; ½ Oz.
- Gmelinii. LIMO-12. 25¢
Blue fls; 2 ft; Siberia; HP.
- Hybrids. LIMO-14N. 20¢
Interesting forms.
- latifolium. LIMO-15. 25¢
Immense lavender-purple heads; dry loca-
tions; 2 ft; HP; space 2-3 ft; Oz. \$1.70.
- Perezii. LIMO-24. 25¢
Sub-shrub; 3 ft; purplish blue; HHP.
Comes first year from seed. ½ Oz. 90¢.

—Suworowii.

Very pretty and unique species with long
tail-like spikes of densely-clustered rose-
pink fls; July-Oct; 18"; space 1 ft; HA. Try
them in GH, excellent for filler work; sow
mid-Aug. for Feb. fls; 50 degrees F. Oz.
\$1.50.

—White.

LI O-38. 25¢
(Goniolimon) Usually listed as Statice;
1 ft; white; HP. Oz. 80¢; 4 oz. \$3.00.

—Mixed Limoniums.

LIMO-36. 25¢

LIMO-37W. 25¢

LI O-38. 25¢

LIMO-X. 20¢

LINARIA

Toad Flax. Scrophulariaceae. Annuals
and perennials of easy culture; fls in racemes
or spikes, in many colors; they are sometimes
called Baby Snapdragons; sow from Aug.
to Feb; best in full sun; C-1.

- alp. a. LINA-1. 30¢
Violet fls, blotched orange; 6"; HP. 1/16
Oz. \$2.00.

—mex. d. nympha. LINA-20. 30¢

Beautiful creamy white fls; 3 ft; HP.
½ Oz. \$1.25.

—marocana Golden Gem. LINA-22G. 25¢

Nice HA; 18"; golden yellow fls.

—Fairy Bouquet. LINA-22F. 25¢

Clear rosy pink; 18"; HA.

—Diadem. LINA-22D. 25¢

Large fls; compact growth.

—Fairy Bride. LINA-22B. 25¢

Dwarf; in new colors.

—Excelsior Hybrids. LINA-22E. 25¢

In pink to dark blue; 18"; HA.

—Northern Lights. LINA-22N. 25¢

New colors, mixed. Oz. 75¢.

—organifoli: see Chaenorhinum.

—reticulata augeo-purpurea. LINA-32A. 25¢

Purple Toad-flax. Deep orange; 12";

HA.

—Northern Lights. LINA-32N. 30¢

New colors mixed. Oz. 75¢.

—villosa. LINA-12. 25¢

Beautiful ever-blooming, non-rampant;

rare; gray leaves; lavender fls.

—Mixed Linarias. LINA-X. 20¢

LINDERA.

(lin-DEER-uh)

Lauraceae. Aromatic trees and shrubs;
formerly under Benzoin; best to sow seed
soon as ripe; resents transplanting.

—Benzoin. LIND-2. 25¢

Spice Bush. Deciduous shrub to 15 ft;

fls before leaves, greenish yellow; fruits

scarlet; moist places; Me-Fla; (IV).

—obtusiloba. LIND-9. 35¢

Korean decid sh or tr to 30 ft; yellow fls;

black fruits. Oz. 80¢.

—umbellata. LIND-18. 35¢

Sh to 15 ft; yellow fls; black fr. Oz. 80¢.

LINDHEIMERA.

Compositae. S. W. American annuals with
heads of both disk and ray flowers; they are
pretty.

—texana. LIND-3. 25¢

Two ft. annual; golden yellow rays, 2" ac.

LINDMANNIA.

Bromeliaceae.

—penduliflora. LINN-30. 50¢

INFORMATION APPRECIATED.

There are a great many cultural hints to
be added to the descriptions and any cus-
tomer growing some special flower of which
he or she has considerable experience, should
sent in their suggestions; it will help some
one to grow better flowers.

LINUM

Flax. Linaceae. Annuals and perennials and shrubs with blue, white, yellow and red flowers and fine in the border; full sun; sow annuals direct to soil in early spring; easy; C-23-24; (LY-num).

- af-ica.um.** LINM-1. 30¢
Small yellow fls; shrubby; per; (X).
- flavum.** LINM-14. 20¢
Golden yellow fls; 1 ft; HHP; C-23-24.
- compactum.** LINM-14C. 25¢
Compact form; fine RG; HHP. ½ Oz. 75¢.
- grandiflorum.** LINM-16. 25¢
Scarlet Flax. Red to bluish purple fls, 1½" ac; 2 ft; HA; space 9". Oz. 90¢.
- coeruleum.** LINM-16C. 20¢
Very showy bluish purple; HA.
- Heavenly Blue.** LINM-16H. 25¢
An improved variety in pure sky-blue. ¼ Oz. 50¢.
- roseum.** LINM-16R. 25¢
Large rose-pink fls; HA.
- Blue.** LINM-16B. 25¢
A very popular cut-flower; HA.
- Julicum.** LINM-18. 25¢
- Lewisii.** LINM-19. 25¢
More robust than L. perenne; 18"; HP.
- monogynum.** LINM-20. 30¢
White fls 1" ac; 2 ft; HP; N. Z.
- bar-bonne-se.** LINM-23. 25¢
Large steel-blue fls; 2 ft; HP.
- perenne.** LINM-26. 20¢
Deep blue fls; very nice; HP. Oz. 50¢.
- salsoloides.** LINM-28. 50¢
Forms close mats 2 ft in diam; woody stems and needle-like lvs covered with white fls of silky texture.
- usitatissimum.** LINM-39. 25¢
Common Flax. 2 ft; attractive pale blue fls; June-Aug; space 1 ft; HA.
- Linum Mixed.** LINM-X. 20¢

LIPPIA.

(LIP-ee-uh)

Verbenaceae. Natives mainly of warm regions; the Lemon Verbena being the commonly grown species.

- cit-riod-ora.** LIPP-1. 25¢
Alovsia) Lemon Verbena. Shrub to 10 ft; native of Argentina and Chile; white fls in spikes; lemon scented; HHS.

LIQUIDAMBAR.

(LIK-wid-am-bahr)

Hamamelidaceae. Showy trees hardy up to the (IV) zone; seeds germinate usually the second year.

- Styr-aciflua.** LIQU-2. 30¢
Sweet Gum. (V); stratify, usually germinates 2nd year; keep seed bed moist. Oz. 90¢; lb. \$8.00.

LIRIODENDRON.

(lihr-ee-oh-DEN-dron)

Tulip Tree. Magnoliaceae. Pretty flowering tree hardy up to (IV) altho we have 2 rather old trees in our yard near Lansing, Michigan; they are rare this far north; the flower is like the Tulip and is in bloom here in May. Seed best stratified and sown in the spring and as they do not transplant readily better results will be had by growing them from seeds sown in coffee cans.

- Tulipifera.** LIRO-3. 30¢
Tulip Tree. Sow as soon as ripe in some leaf mould; germination never real good Oz. 60¢; lb. \$2.50.

LIROPE.

(lihr-RYE-oh-pee)

Lily Turf. Lillaceae. Asian evergreen perennials with attractive grass-like foliage; it makes a nice ground cover either sun or

shade; hardy up into zone (IV).

—**spicaia.**

Lily Turf. Blue spikes followed by black berries; RG or edging; 10"; HP.

LISSOCHILUS.

(lis-oh-SHIL-us)

Orchidaceae. Terrestrial African Orchids native of tropical Africa.

- af-riarius.** LISS-1. 35¢
- Bucca-anii.** LISS-3. 40¢
All yellow fls; good size flowering stems to 4½ ft.
- k-edssii.** LISS-6. 50¢
Terrestrial African Orchids; closely allied to Eulopia; S. Rhodesia.
- speciosus.** LISS-16. 35¢

LITHOPS.

(LITH-ops)

(WS) The most popular of the stemless Mesembranthemums; use equal parts of good loam, coarse sand and leaf mould with limestone or crushed oyster shells; very easy from seed; growth during April to October.

- Aucampiae.** LITH-3. 40¢
Beautiful species; yellow fls in Sept.
- bella.** LITH-4. 40¢
White fls to 1" ac; 1" high and broad.
- comptonii.** LITH-6. 50¢
Yellow fls; 1½" high; fls 1" ac.
- gracilidelineaata.** LITH-18. 40¢
- Helmuthii.** LITH-20. 40¢
Scented yellow fls; use deep pots.
- lineata.** LITH-33. 45¢
- marmorata.** LITH-34. 50¢
Scented white fls.
- merrillii.** LITH-37. 75¢
- olivacea.** LITH-39. 50¢
Yellow flowers.
- oseniana.** LITH-42. 75¢
- pseudotruncatella.** LITH-44. 50¢
Yellow flowers in October.
- Ruschiorum.** LITH-48. 40¢
Rather difficult but grows beautifully where the atmosphere is dry and in plenty of light; not suitable for GH growing.
- Vanzijilii.** LITH-59. 40¢
Small reddish yellow fls; very lovely.

LITHOSPERMUM.

(lith-oh-SPERM-um)

Gromwell. Boraginaceae. Annuals, perennials and sub-shrubs with white, yellow, blue and violet flowers in racemes or spikes; they are showy in the border or rockery.

- intermedium.** LITO-18. 35¢
Sub-shrub; blue fls; 10"; HSh.
- prostratum.**.....I would like to know of a source for seed of this species.
- purpureo-caeruleum.** LITO-29. 50¢
Rich blue fls, ½" ac; nice RG; stems decumbent; HP.

LITTONIA.

(lit-TOH-nee-ah)

Liliaceae. Climbing or erect plants with bell-shaped orange or yellow flowers and tuborous roots; easy to grow in a sunny window; give rest in early winter; related to Gloriosa.

- modesta.** LITT-1. 30¢
Bright orange bells, 1" ac; good summer house plant.

LIVISTONA.

(liv-ist-TOH-nuh)

Palmaceae. Also known as Corypha, in the trade. Tropical Palm. 35 seeds to the ounce.

- australis.** LIVI-1. 75¢
- Palm.** 100 seeds \$5.00; 1,000, \$15.00.
- rotundifolia.** LIVI-9. 90¢
(Corypha rot.) 100 seeds \$5.00; 1,000, \$30.00. Seed must be ordered early.

LOBELIA

Lobeliaceae. Annuals and perennials generally in blue or red flowers; for garden growing they are divided into 2 classes — the annuals being the most popular and are grown much in GH both for pot plants and for setting out doors in beds or edging; they are tender. (loh-BEEL-ee-ah).

L. ERINUS: Edging Lobelia. Annual, 4-12 inches high; partially trailing, with flowers in blue shades with white throats; plants from seed are stronger and more robust than from cuttings; comes true; for early plants start indoors in March; C-3.

—**Bedding Queen.** LOB-1BQ. 25¢
Very dwarf dark blue with white eye.
1/2 Oz. \$1.00.

—**Blue Gown.** LOB-1BG. 25¢
Dwarf compact; clear sky-blue. 1/2 Oz.
\$1.00.

—**Blue Stone.** LOB-1BS. 25¢
Rich clear blue; dwarf, compact. 1/2 oz.
90¢.

—**Crystal Palace.** LOB-1CP. 25¢
True blue; dark bronze-green fol; popular. 1/2 Oz. 60¢.

—**Cambridge Blue.** LOB-1CB. 25¢
Clear dark blue; popular. 1/2 Oz. 90¢.

—**Dorothea.** LOB-1D. 25¢
Compact; violet color; pretty.

—**Emperor William.** LOB-1W. 25¢
Extra dwarf; for edging; gentian blue
1/2 cz. 90¢.

—**Mrs. Clibran.** LOB-1C. 25¢
Extra dwarf; dark blue, large white eye.

—**compacta.** LOB-1CC. 25¢
Adwarf compact form of above. 1/4 Oz.
\$1.50.

—**Prima Donna.** LOB-1PD. 25¢
Rich velvety maroon or deep carmine-red.

—**White Lady.** LOB-1WL. 25¢
—**Blend of Above Varieties.** LOB-1X. 25¢

L. ERINUS PENDULA: Pendulous type especially used in baskets and vases and window boxes.

—**Hamburgia.** LOB-2H. 25¢
Pale blue with attractive white eye.

—**Snow Queen.** LOB-2SQ. 25¢
—**Sapphire.** LOB-2S. 25¢
Deep blue with showy white eye.

—**fulgens, Illumination.** LOB-1IL. 40¢
Dark leaves; enormous spikes of scarlet
fls; 3 ft; TP. 1/32 Oz. \$4.00.

OTHER SPECIES:

—**cardinalis.** LOB-6. 25¢
Red Lobelia. Striking; blaze of red; 6 ft; dark lvs; always striking when seen blazing, almost head-high, in colonies along creeks and little branches of the Blue Ridge; C-23. 1/2 Oz. \$1.50.

—**Queen Victoria.** LOB-6V. 25¢
Dark red foliage; bright red fls; showy; 4-5 ft; HP.

—**Hybrida.** LOB-6H. 25¢
Dark leaves; scarlet, crimson and purple fls.

—**dryensis.** LOB-7. 30¢
A more compact blue hybrid of L. siphillica; more floriferous; 2 ft. 1/2 oz. \$4.00.

—**inflata.** LOB-17. 25¢
Indian Tobacco. Light blue fls; 3 ft; HHA; must have light to germinate.

—**siphillica.** LOB-29. 25¢
Deep blue fls, 1" long; 3 ft; Me-La; (IV); HP.

LOBULARIA maritima: see Alyssum.

LOCUST: see Robinia.

LOISELEURIA.

Alpine Azalia. Ericaceae. Ev. sub-shrub. —**procumbens.** LOIS-3. 40¢

Excellent alpine-rock plant of polar regions; very small rose or white fls. 1/4 Oz. 95¢

LOMATIUM.

(loh-MAY-shee-um)
Umbelliferae. Short-stemmed, perennials with small white, yellow or purple fls in umbels followed by fruits; W. N. Amer. natives; for the wild garden.

—**macrocarpum.** LOMT-6. 30¢
—**utriculata.** LOMT-11. 30¢
Spring Gold. 1 ft; B. C.-Calif; HP.

LONAS.

(LOH-nass)
Compositae. An interesting ornamental branching, annual; native of Medit. region; they can be dried; C-7.

—**annua.** LONA-1. 25¢
(inodora) Golden Ageratum. 1 ft; July-Aug; HA; space 12". Oz. \$1.00.

LONICERA.

(lon-NISS-er-uh)
Honeysuckle. Caprifoliaceae. Popular erect or climbing shrubs, hardy in the North; sow seed in the fall or stratify for spring.

—**alpigena.** LONI-3. 30¢
c.s. Oz. 80¢; lb. \$7.00.

—**Caprifolium.** LONI-15. 35¢
Twining vine to 20 ft; white or purple fls in whorles; fragrant. c.s. Oz. 70¢; lb. \$8.00.

—**etrusca.** LONI-23. 30¢
c.s. Oz. 80¢; lb. \$6.75.

—**gracilipes v. genula.** LONI-33G. 40¢
6 ft sh; April-May; scarlet fr; Japan.

—**glabra.** LONI-33L. 40¢
—**japonica.** LONI-42. 30¢
Ev cl with white or purplish fls; June-Sept; Japan. Oz. 90¢.

—**Maackii.** LONI-55. 35¢
White fls; June; 15 ft. Oz. 75¢.

—**Morrowii.** LONI-66. 40¢
8 ft sh; fls white changing to yellow; May June; red fruit; Japan. Oz. 90¢; lb. \$10.50

—**tatarica.** LONI-95. 25¢
c. s. Oz. 50¢; lb. \$4.50.

—**xylostium.** LONI-105. 30¢
c.s. Oz. 60¢; lb. \$4.50.

LOPHIOLA.

Haemodoraceae. One native HP found in wet pine barrens and bogs; N. J. south.

—**americana.** LOPI-1. 40¢
(L. aurea) Golden Crest. Small yellowish fls in dense white woolly panicles; HP.

LOPHOPHORA.

Cactaceae. Small depressed plants.
—**Ziegleri.** LOPH-4. 50¢
Pale yellow fls; 1" wide; Mexico.

LOTUS.

Leguminosae. Grown for ornament and the edible pods.

—**tetragonolobus.** LOTU-26. 50¢
Winged Pea. Trailing annual; pods edible; S. Europe.

LOVAGE, Black: see *Smyrniolum olusatrum*.
—**officinale:** see *Levistum*.

LUCULIA.

(lew-KEW-lee-uh)
Rubiaceae. Shrubs with salverform 5-lobed fls in terminal corymbs; native of India and China; grown in the greenhouse and planted out during the summer.

—**Bhutan Species.** LUCU-10. 50¢

A new species native of Bhutan with large pure white fls in immense panicles; broad ornamental lvs; rare.

- gratissima, Rose.** LUCU-12. 30¢
To 16 ft; rose fls, ½" ac; GH. ¼ Oz. \$4.00
 - White.** LUCU-1W. 40¢
 - Mixed.** LUCU-1X. 25¢
 - tsensis.** LUCU-10. \$1.00
- NEW. Rare species from Bhutan, N. India. Pure white fragrant fls, tubes 3" long, individual fls 1" as. in large panicles, 9-12" long and 5-6" ac; harder than L. gratissima; 8 ft; (IX?); partial shade.

LUFFA.

(LUFF-uh)

Cucurbitaceae. Tender vines of tropical regions grown as TA in the North. Some of the Gourds belong here.

- acutangula.** LUFF-1. 25¢
Fruits club-shaped; TA vine like Gourds.
- cylindrica.** LUFF-3. 25¢
Green Snake. Fruits 2 ft. long; TA vine.
- macrocarpa.** LUFF-3M. 25¢
Dish Cloth. Gourd.
- Mixed.** LUFF-X. 20¢

LUNARIA.

(loo-NAY-rec-uh)

Satin-Flower; Honesty; Moonwort. Cruciferae. Annuals and perennials grown mainly for the pretty dried fls; sow the annuals early, they are often biennial; DW; C-23.

- annua.** LUNA-1X. 20¢
HA or HB; 18"; white, red and purple.
- White.** LUNA-1W. 2¢5¢
- Crimson.** LUNA-C. 25¢
Oz. 50¢.
- variegated Purple.** LUNA-1M. 25¢
Oz. 50¢.
- Violet.** LUNA-1L. 25¢
- Variegated.** LUNA-1V. 25¢
The leaves are variegated white.

LUPINUS

Lupine Leguminosae. Annual and perennial; fls in great profusion on long stems; they are pretty and make a good display in the border; well drained soil, thriving even in rather poor soil; sow where they are to grow.

- Hartwegii.** LUP-25. 20¢
Best annual species; July-Sept; HA; C-1. 1½-3 ft; space 12 inches apart.
- Blue.** LUP-25B. 20¢
Light shade of blue.
- Celestial Blue.** LUP-25C. 25¢
- Giant King.** LUP-25G. 20¢
A pretty blue.
- Pixie Delight.** LUP-40D. 25¢
A new brilliant blend of colors; dwarf.
- Rose.** LUP-25Z. 20¢
- White.** LUP-25W. 25¢
- Pixie Delight.** LUP-40PX. 25¢
Brilliant color mixture; dwarf plants.
- Lyallii.** LUP-34. 25¢
Sun; very light soil best; ½" high; silvery foliage and blue fls; RG; 4 ft. HP.
- mutabilis.** LUP-39. 25¢
- Cruikshanksii.** LUP-39C. 25¢
Dark blue changing to white.
- nanus.** LUP-40. 25¢
Blue with purple dotted spots; fragrant; May-June; 15"; HA; space 2 ft.
- apricus.** LUP-40A. 30¢
Silvery foliage; very effective; blue and white fls.

L. POLYPHYLLUS: The tall perennial Lupine; hardy in the North. Winged flower; many beautiful colors; LW; C-23 or 24.

RUSSELL STRAIN

Grown from selected plants of the originator's stock; it will produce a brilliant range of colors of the very brightest.

PRICE: Oz. 75¢; lb. \$6.00. LUP-54. 25¢

NOTE: I can furnish six varieties in fixed colors to anyone interested; brick-red; yellow shades; pink with white flag; creamy white; showy carmine; marine-blue; These are the first Russel Lupins that come true from seed. Oz. \$5.00.

- Carmine.** LUP-50C. 20¢
- Yellow.** LUP-50Y. 20¢
- Princess Juliana.** LUP-50J. 20¢
Dwarf bright pink; 3 ft.
- Roseus.** LUP-50Z. 20¢
- Salmon Queen.** LUP-50S. 20¢
- Terre Cotta.** LUP-50T. 20¢
- White.** LUP-50W. 25¢
- Blend.** LUP-50X. 20¢

- arboreus.** LUP-7. 30¢
Sh to 8 ft; sulphur yellow fls; Calif.
- Lavender.** LUP-7L. 30¢
- nootkatensis.** LUP-41. 30¢
3 ft; HP; blue fls, variegated with red and yellow; May-July; Alaska.
- perennis.** LUP-45. 30¢
Blue to pink and white fls; May-June; Me.-Fla; 2 ft; HP.
- pubescens Rose Queen.** LUP-51Z. 30¢
(Tricolor) Semi-dwarf; bright, pure rosy pink; space 1½-2 ft apart.
- rivularis.** LUP-53. 25¢
Blue or variegated fls marked with yellow; 3 ft; HP; they are similar in size to the Russel type but more spreading and blooms a month earlier.
- subcarneus.** LUP-56. 25¢
Texas Blue Bonnet. 15"; massive flower spikes; HA. Oz. 50¢; lb. \$3.00.

LUTKEA.

- pectinata.** LUTK-1. 25¢

LYCHNIS

Caryophyllaceae. Brilliantly colored fls easily grown from seed sown indoors early in the spring when they will bloom the same season; sun; rather dry soils; LW; C-23; (LIK-nis).

- alpina.** LYPH-2. 25¢
Pink fls in dense terminal heads; tufted; 1 ft; RG; HP.
- aridus.** LYPH-3. 25¢
- Arkwrightii Hybrids.** LYPH-4. 25¢
Showy; nice color range; 18"; HP. ½ Oz. 75¢.
- chalcadonica.** LYPH-7. 25¢
Scarlet fls in dense terminal heads; June-July; 2-3 ft; HP. Oz. \$1.00.
- alba.** LYPH-7A. 30¢
- Robert.** LYPH-7B. 35¢
Nice pink variety; JJune-Sept.
- Coli-rosa.** LYPH-8. 20¢
Rose-of-Heaven. Rose-red terminal fls; 18"; HA; space 12" apart.
- candida.** LYPH-8C. 25¢
White form; HA.
- Loyalty.** LYPH-8L. 25¢
Blue on 6" plants; HA.
- nana compacta.** LYPH-8NK. 25¢
Mixed colors indwarf compact plants.
- nobilis.** LYPH-8N. 25¢
Chamois rose. ½ oz. 40¢.
- Rose Beauty.** LYPH-8RB. 25¢
Lovely large flowered deep rose; 18"; HA.
- Blue Pearl.** LYPH-8B. 25¢

- Azure.** **LYCH-8A. 25¢**
 Rosy light blue. .
 —**Mixed Coeli-rosa Var.** **LYCH-8X. 20¢**
 —**coronaria.** **LYCH-10. 20¢**
 Rose Champion. Crimson; terminal fls;
 3 ft; thrives on dry warm banks but will
 grow anywhere. HB or HP.
 —**astrosanguinea.** **LYCH-10A. 25¢**
 Dark blood-red fls.
 —**Red.** **LYCH-10R. 25¢**
 Deep red color.
 —**Flos-cuculi.** **LYCH-13. 25¢**
 Cockoo-flower. Red or pink panicles;
 May-Aug; 15"; HP.
 —**Flos-Jovis.** **LYCH-14. 25¢**
 Flower-of-Jove. Pink in dense umbels;
 June-July; 18"; HP.
 —**Fort. Variety.** **LYCH-14H. 20¢**
 Pink fls over silver rosettes; 5"; HP.
 —**Forbesii Hybrids.** **LYCH-16. 25¢**
 Shades of pink to crimson and white;
 20"; HP. Oz. \$2.00.
 —**Haageana.** **LYCH-19. 20¢**
 Hybrid; orange-red fls; May-June; 20"
 HP.
 —**utriculata.** **LYCH-29. 25¢**
 Tender perennial.
 —**Viscaria.** **LYCH-30. 30¢**
 Red and purple fls, ½" ac, in clusters;
 May-June; 18"; HP.
 —**splendens.** **LYCH-30S. 30¢**
 German Catchfly. Large flowering; HP.
 —**Lychnis Blend.** **LYCH-X. 20¢**

LYCIUM.

(LISH-ee-um)

- Box Thorn. Matrimony Vine. Solanaceae.
 Ornamental shrubs requiring support; they
 are hardy in the North.
 —**chinese.** **LYCI-4. 30¢**
 Arching sh to 10 ft; purple fls, ½" long;
 scarlet to orange-red fruits; China. Oz. 60¢
 —**europaeum.** **LYCI-5. 30¢**
 Box Thorn. Spreading shrub to 10 ft;
 scarlet or orange fruits. Oz. 60¢.

LYCOPODIUM.

- Club Moss. Lycopodiaceae. Grown in
 moist shady places; acid soil; used as Xmas
 greens.
 —**clavatum.** **LYCO-3. 50¢**

LYGODIUM.

(ly-GOH-di-um)

- Schizaceae. Twining vine-like Fern; trop.
 —**palmatum.** **LYGO-5. 50¢**
 Climbing Fern. The only Fern with
 climbing stems native to the U.S.; shade
 or part; 2-4 ft; extra good.
Plants: 50¢ each; 3, \$1.40. Prepaid.
 —**scandens.** **LYGO-7. 50¢**
 —**squerosa.** **LYGO-8. 50¢**

LYONIA.

(lye-OH-nee-uh)

- Ericaceae. (Xolisma) Evergreen and decidu-
 ous shrubs, usually best in moist soils; sow
 seed in sand and sphagnum, indoors; good
 for colonizing.
 —**mariana.** **LYON-4. 35¢**
 Stagger Bush. Deciduous; 6 ft; May-
 June; fls nodding, terminal racemes; (V).

LYSIMACHIA.

(ly-si-MAY-ki-ah)

- Loosestrife. Primulaceae Annuals and
 perennials; summer blooming; in white or
 yellow, sometimes purple and blue, in spikes
 or racemes. Good in moist places and edges
 of pools or streams.
 —**punctata.** **LYSM-14. 25¢**
 Yellow fls in whorles; 3 ft; HP; C-23.
 —**ramosa.** **LYSM-15. 25¢**
 —**Mixed.** **LYSM-X. 20¢**

LYTHRUM.

(LITH-rum)

- Loosestrife. Lythraceae. Annuals and per-
 ennials; border or wild garden; easy in moist
 soils.

- Salicaria v. roseum.** **LYTH-7R. 30¢**
 Purple Loosestrife. Large rose-colored
 fls in dense terminal spikes; 3 ft; (IV); HP.

MACHAERANTHERA.

- Compositae. A genus of American daisy-
 like annuals, biennials and perennials, simi-
 lar to hardy Asters; Tahoka Daisy is a com-
 monly grown species; C-7.

- tanacetifolia.** **MACE-1. 35¢**
 Tahoka Daisy. HB; 2 ft; fl-heads 2" ac;
 ray-fls blue-violet, disks yellow; good for
 border or cutting; sow seed in fall or early
 spring.

MACADAMIA.

- Proteaceae. Australian trs and shs; grown
 in zone (X) for their edible nuts.

- terminalia.** **MACA-4. 50¢**
 Queensland Nut. Tr to 50 ft; will stand
 light frosts; requires heat to germinate;
 plant singly in pots; 90 seed to pound.
 100 seeds \$2.50.

- MACHAERIUM** Tipa: see **Tipuana Tipu.**

MACLEAYA.

(mah-KLAY-ray)

- Plume Poppy; Boccunia. Papaveraceae.
 Perennials used for their bold and attractive
 habit and appearance; flowers are small and
 in terminal panicles.

- cordata.** **MACL-1. 25¢**
 Leaves 8" ac; specimen plants; 6 ft; HP.

MACLURA.

(mah-KLOO-ray)

- Moraceae. Deciduous American trees.
 —**pomifera.** **MACU-1. 25¢**
 Osage Orange. Sow in spring; soak seeds
 in warm water. Oz. 50¢.

MACROPIDIA.

Monotypic genus.

- fuligosa.** **MACR-8. 50¢**

MAESA.

- Myrsinaceae. Trop. shs and trs grown in
 GH or in far South.

- japonica.** **MAES-5. 35¢**
 Tr to 25 ft; racemes 4" long; Japan.
 ½ Oz. \$1.50.

MAGNOLIA

- Magnoliaceae. Showy trees and shrubs
 with large pink, white, purple or yellow fls
 followed by cone-like fruits; very ornamental.
 Sow seeds in the fall or stratify till spring.

- acuminata.** **MAGN-1. 25¢**
 Cucumber-Tree. Best to sow in spring;
 (V); used as understocks to graft the var-
 ieties. Oz. 70¢.

- Campbellii.** **MAGN-6. 30¢**
 Tree; fls pink outside, white inside; 10" a-
 cross; (VII); 150 seed to oz.

- White.** **MAGN-6W. 25¢**
 —**Red.** **MAGN-6R. 30¢**

- dentudata.** **MAGN-12. 40¢**
 (conspicua) d.b. Oz. 60¢; lb. \$3.50.

- fuscata** see **Michelia fuscata.**

- grandiflora.** **MAGN-18. 50¢**
 Bull Bay. Fine ev tr to 100 ft; white frag-
 rant fls to 8" ac; (VII). Oz. \$1.20.

- globosa.** **MAGN-17. 35¢**
 Bull Bay. (VII); white fls; fragrant; Oz.
 60¢.

- Kobus.** **MAGN-20. 40¢**

Tree to 30 ft; white fls, 4" ac; used as an understock for grafting varieties; Japan. easy from seed. Oz. 75¢; lb. \$4.00.

—**boealis.** **MAGN-20B.** 50¢

A pyramidal form with large lvs. Oz. 80¢

—**liliflora.** **MAGN-22.** 30¢

Sh to 10 ft; fls 4" long, purple outside, white inside; (discolor); China. Oz. 95¢.

—**racophylla.** **MAGN-23.** 50¢

Large Leaf Cucumber Tree; (V); white. d.b. Oz. 50¢; lb. \$4.25.

—**rhvva.** **MAGN-27.** 50¢

Tree; white fls; fragrant, 7" ac; (VII). Oz. 75¢; lb. \$3.50.

—**salicifolia.** **MAGN-30.** 50¢

Tr to 30 ft; fls 5" ac; white; Japan. Oz. 90¢

—**Sieboldii.** **MAGN-31.** 50¢

Tr to 30 ft; white, fragrant fls, 4" ac; crimson fruits; Japan.

—**Sulaveana.** **MAGN-32.** 30¢

Hybrid *M. denudata* x *liliflora*; hardy in N. 40°

—**stellata.** **MAGN-38.** 50¢

Sh or tr to 15 ft; fls 3" ac; white, fragrant; red fruits; Japan. Oz. 80¢;

—**tripetala.** **MAGN-40.** 50¢

Umbrella-tree. 40 ft; (V). d.b. Oz. 50¢; lb. \$4.00.

—**Mixed.** **MAGN-X.** 25¢

MAHONIA. (ma-HOH-nee-ah)

Berberidaceae. Evergreen shrubs similar to the Barberry; fls in yellow racemes followed by blue berries; some are hardy in the North and should be planted in sheltered spots from wind and hot sun.

The importing of seed of this genus is prohibited thus scarce; U. S. sources needed.

—**Aquifolium.** **MAHO-1.** 50¢

Large Oregon Grapes. 3 ft; hardy in N. c.s. Oz. 50¢; lb. \$4.00.

—**japonica.** **MAHO-3.** 35¢

(japonica) 12 ft sh; (V); China. Oz. 90¢.

—**lomaifolia.** **MAHO-8.** 50¢

Probably the finest Mahonia; panicles 20" ac with up to 10,000 fls on each head; a magnificent fol. plant also.

—**repens.** **MAHO-16.** 30¢

Low growing; bluish green lvs; hardy in N; 1 ft; HP.

MAJORANA.

Sweet or Knotted Majoram. HP; grows as a tree in the North.

—**hortensis.** **MAJO-4.** 25¢

MALACOCARPUS. (mal-ak-oh-KARP-us)

(WS, CG) Full sun; porous compost; mainly yellow fls.

—**erinceus.** **MALK-9.** 35¢

Spiral ribs, dark brown spines.

—**mammillarioides:** see *Notocactus* *mamm.*

—**peruvianus:** see *Notocactus*.

—**sellowii.** **MALK-19.** 50¢

Globular, 6" ac; yellow fls, 1 1/4" long; S.A.

MALCOMIA.

(mal-KOH-me-ah)

Malcome Stocks. Cruciferae. Annuals and perennials with grayish leaves; sow seeds early indoors or direct to the garden.

—**maritima.** **MALC-3X.** 25¢

Virginia Stocks. Fine for border; 12"; HA; seed can be sown every 2 weeks during the spring for succession bloom; pretty in any spot where it will not be crowded out by grass; space 4"; HA.

—**Crimson.** **MALC-3C.** 25¢

—**Rose.** **MALC-3Z.** 25¢

—**White.** **MALC-3W.** 25¢

—**Yellow.** **MALC-3Y.** 25¢

MALOPE.

Malvaceae. Showy annuals with large solitary flowers; C-1.

—**trifida.** **MALO-3X.** 35¢

Fls 3" across; 3 ft; mixed colors. Oz. 50¢.

—**White.** **MALO-3W.** 35¢

—**rosea.** **MALO-3R.** 35¢

—**Purple-red.** **MALO-3P.** 35¢

MALUS.

Apple. Rosaceae. The oriental Crabs of the *Malus floribunda* group come true from seed.

—**floribunda.** **MALU-15.** 35¢

Showy Crab-Apple. c.s. Oz. 70¢; lb. \$8.50.

—**Sieboldii.** **MALU-36.** 75¢

Toringo Crab. Shrub or tree 15 ft; hardy in North; Japan. Oz. \$8.00.

—**syvestris.** **MALU-53.** 40¢

(Pyrus Malus) Apple. The seed is from Australia.

—**Zumi.** **MALU-50.** 75¢

Tree to 20 ft; fls 1" across; pink in bud.

MALVA.

(MAL-vah)

Mallow. Malvaceae. Erect spreading plants, easily grown in the border. Best to sow seeds where they are to grow; C-23.

—**moschata.** **MALA-10.** 35¢

Musk M. Fls rose to white, 2" ac; 2 ft; HP.

—**moschata rosea.** **MALA-10R.** 30¢

Musk Malva. 2 ft; HP; fls rose-pink; (IV).

—**syvestris mauritiana.** **MALA-1M.** 35¢

—**yvesis mauritiana.** **MALA-1M.** 30¢

MALVASTRUM. (mal-VAS-trum)

False Mallow. Malvaceae. Mallow-like plants and sub-shrubs with purple or red fls; usually in terminal spikes; makes nice plants in the border and sometimes grown in GH.

—**coccineum.** **MALV-3.** 30¢

Prairie Mallow. Brick-red fls, 1" ac; 8 ft; hardy; HP.

—**capensis.** **MALV-1.** 35¢

(Malva Capensis) 4 ft; purple fls; (IX).

—**scabrosum.** **MALV-9.** 40¢

Small rosy fls; 3-4 ft; TSh.

—**virgatum.** **MALV-15.** 35¢

Erect; small pale pink fls; 3-4 ft; TSh.

MAMMELLARIA

Cactaceae. (Neomammillaria) Mainly Mexican Cacti. It is a very popular genus; C-63.

(WS, CG) Usually low growing, clustered plants; easy from seed; free-flowering; general compost for most species; full sun but some shade in hot period.

This is a good genus for beginners to start on; the seeds germinate freely.

—**agregia.** **MAMM-5.** 60¢

—**angularis.** **MAMM-10.** 60¢

—**aurehamata.** **MAMM-20.** 50¢

—**auriariolus.** **MAMM-19.** 50¢

—**bella.** **MAMM-26.** 75¢

—**bocasana.** **MAMM-29.** 50¢

Mound; whitte fls; Mexico.

—**Browae.** **MAMM-35.** 50¢

—**cadereyensis.** **MAMM-36.** 75¢

—**caput-medusae.** **MAMM-41.** 75¢

—**chionocephala.** **MAMM-48.** 60¢

—**cirrhifera longiseta.** **MAMM-50L.** 75¢

—**collinsii.** **MAMM-56.** 60¢

—**compressa.** **MAMM-57.** 35¢

Pinkish fls, 1 1/2" long; Mexico.

—**crocoidata.** **MAMM-66.** 75¢

—**quadriflora.** **MAMM-66Q.** 50¢

—**Dawsonii.** **MAMM-69.** 50¢

- decipiens.
—de-sispina.
Globose; 4" diam; fls yellowish inside
purple outside, 1½" long; Mexico.
—durispina.
—elegans.
—longata.
Small dense clumps; fls white, 1½" long.
—Flichei.
Pale yellow fls; Mexico.
—Guelzowiana.
Globose; 2½" high and diam; purple fls,
2" long; Mexico.
—Hahniana.
Globose; 4" high and diam; rose-carmine
fls; Mexico.
—Galliana.
—Wederinanmana.
—Herrerae.
Globose; 1½" diam; pink or purplish fls,
1" long; Mexico.
—Jnaiae.
—Krawinskyana.
—kewensis.
—Craigeana.
—Kunthii.
—lanata.
—leucocentra.
—longicoma.
—magallanii.
—Magnimamma.
—flavovirens.
—mamillaris.
(M. simplex) 2½" high; cream fls; Vene.
—Marksiana.
—martinezii.
—mayensis.
—mercadensis.
—mieracantha.
—superfina.
—morganiana.
—nigra.
—peninsularia.
—serbellia.
Globose; fls reddish, 1½" long; Mexico.
—pilisina.
—Parkinsonii.
—Palthonii.
—Gadiiformis.
—Pettersonii longispina.
Cylindric; 8" high; Mexico.
—polythele.
Cylindric; 8" high; reddish fls; Mexico.
—hexacantha.
—notoria v. giganteafl.
—Pottii.
—pseudoserpertexta.
—ritteriana.
—rose-alba.
Globose; 2½" high; 3" diam; white fls.
—rosensis.
—Schiedana.
Globose; 3" diam; white fls; Mexico.
—Schwanzi.
—sempervivi quadrispina.
—solisoides.
—sombreteffensis.
—sphaerata.
Cespitose; clusters, 1½" diam; 8" high;
rose-purple fls; Mexico.
—epinosissima.
—sanguinea.
—straminea.
—tietaria.
—trichocantha.
Globose; red or yellow fls; Mexico.
—Tschantii.
2¼" diam; pale pink fls, ¾" long; Mex.
—Valladiziana.
—Vireckii.
—wadermanniana.
—weberiana.
—weisingeri.

MAMM-70. 75¢
MAMM-72. 50¢

MAMM-85. 75¢
MAMM-92. 75¢

MAMM-95. 50¢
MAMM-106. 50¢

MAMM-129. 50¢
MAMM-129S. 45¢

MAMM-133. 50¢
MAMM-133G. 50¢

MAMM-133W. 50¢
MAMM-138. 50¢

MAMM-143. 50¢
MAMM-145. 50¢

MAMM-147. 40¢
MAMM-147C. 70¢

MAMM-150. 75¢
MAMM-152. 60¢

MAMM-156. 40¢
MAMM-150. 50¢

MAMM-168. 60¢
MAMM-169. 40¢

MAMM-169F. 50¢
MAMM-172. 40¢

MAMM-172. 60¢
MAMM-174. 65¢

MAMM-175. 40¢
MAMM-181. 40¢

MAMM-190. 50¢
MAMM-190S. 50¢

MAMM-201. 75¢
MAMM-212. 75¢

MAMM-230. 50¢
MAMM-232. 50¢

MAMM-240. 60¢
MAMM-242. 50¢

MAMM-244. 40¢
MAMM-244C. 50¢

MAMM-247. 60¢
MAMM-254. 50¢

MAMM-266. 60¢
MAMM-268. 50¢

MAMM-271. 75¢
MAMM-282. 50¢

MAMM-284. 50¢
MAMM-286. 50¢

MAMM-289. 50¢
MAMM-288. 60¢

MAMM-291. 50¢
MAMM-290. 40¢

MAMM-290C. 50¢
MAMM-291. 75¢

MAMM-298. 60¢
MAMM-298. 50¢

MAMM-299. 50¢
MAMM-307. 50¢

MAMM-308. 40¢
MAMM-404. 50¢

MAMM-407. 75¢
MAMM-409. 75¢

—Zacatecasensis.
—zephyranthoides.

MAMM-418. 50¢
MAMM-419. 60¢

MANDEVILLE.

Apocynaceae. Woody vines of trop. Am.
Use equal parts peat and sandy loam.

—laxa suaveolens. MAND-2. 50¢
Chilean Jasmine. Semi-dec'd climber
with large white, scented fls; easily grown
from seed.

MANIHOT.

(MAN-ee-hot)

Euphorbiaceae. Tropical Amer. trees and
shrubs useful for their large fleshy roots.

—esculenta. MANI-4. 50¢
Cassava, Manioc, Tapioca Plant. Shrub;
9 ft; edible. (X).

MARIGOLD

Tagetes. Compositae. Marigolds are fairly
hardy and therefore they should be planted
rather early in the spring; there are many
beautiful varieties in both types.

If you would like to grow Marigolds in-
doors during winter, sow seed middle of
August and grow at 50 degrees F; will flow-
er from Dec to late Feb.

AFRICAN MARIGOLDS: These are strong
feeders and require plenty of water, there-
fore plant them in the richest, most favor-
able section of your garden; seed may be
sown direct or indoors and set out in May;
give plenty of room, usually 3 ft.

NOVELTY TYPES: Large blooms; 3-5 ft.
high and flowers to 4-5 inches across; beds
and the odorless varieties for cutflowers.

—Treasure Chest. MARY-1T. 20¢
Large ball-shaped heads in mixed colors.
—Crown of Gold. MA Y-1CG. 25¢
—Collarette type; Gold Medal; odorless;
golden orange fls.

—Gigantea Sunset. MARY-1GS. 20¢
Huge yellow or primrose fls, 5" ac; 3½ ft.
—Glitters. MARY-1G. 25¢
An All-American selection in 1951; large
Chrysanthemum-type; golden yellow fls;
ft. 1½ Oz. 51.25.

—Goldilocks. MARY-1GL. 25¢
NEW. Like Glitters in plant habit and
flower form but bright golden yellow.

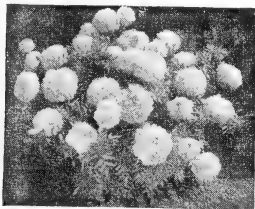
—Golden Ball. MARY-1GB. 20¢



TALL DOUBLE AFRICAN MARIGOLDS

Deep golden yellow; double fls.
—Golden Glow. MARY-1GG. 20¢
Very large golden heads, 5" ac; odorless.
—Mission G's Goldsmith. MARY-1MG. 25¢
Perfect ball-shaped type; huge golden fls.
—Yellowstone. MARY-1YS. 25¢

- Golden yellow; incurved; huge heads.
Gypsy Jewels. MARY-1GJ. 25¢
 A wide range of brilliant colors; sweet;
 15" high; neat plants.
Golden Bedder. MARY-1BD. 25¢
 Chrysanthemum flowered; deep golden.
Golden Queen. MARY-GQ. 20¢
Moonlight. MARY-1M. 20¢
 Tall giant flowered; yellow; extra double.
Orange Queen. MARY-1NQ. 20¢
 Medium height; double flowers.
Primrose Queen. MARY-1PQ. 25¢
 Dwarf growth.



POTS O'GOLD

- Pot O'Gold.** MARY-1PG. 20¢
 Deep golden orange; dwarf, compact.
Silver Light. MARY-1V. 20¢
 Improved Yellow Supreme; dandy.
Sunlight. MARY-1S. 20¢
 Giant flowered; bright orange-red.
Little Giants, Mixed. MARY-1LG. 20¢
 Collection of dwarf large-flowering; 15".
Early Sunrise. MARY-1ES. 20¢
 Dazzling golden yellow; 4 ft.
 Deep golden; dwarf plants; good bedder.
Above Mixed. MARY-1X. 20¢

TALL DOUBLE AFRICAN: All double or flutosa type flowers with quilled petals and all 100% double; favorites for bedding or cutting; 2½ ft.

GH growing sow Jan. 1st for May 1st; grow as single stem and space 3 x 4" at 50F.

- All Double Gold.** MARY-2G. 20¢
All Double Lemon. MARY-2L. 20¢
All Double Orange. MARY-2N. 20¢
All Double Mixed. MARY-2X. 20¢
Lemon Queen. MARY-2LO. 20¢
 Los Angeles florist strain; lemon-yellow.
Golden Emblem. MARY-2GE. 20¢
Golden Prince. MARY-2P. 20¢
 Rich gold, between Lemon Queen and Orange Prince.

- Josephine.** MARY-7J. 20¢
 Single brown; good cut; 3 ft.
Lieb's Tall Winter. MARY-17LW. 25¢
 Deep brown; single; GH for cutting.

DWARF DOUBLE FRENCH:

- Dobbie's Dwarf.** MARY-8D. 20¢
 Striped double flowers.
Electric Light. MARY-8EL. 20¢
 Dwarf double; bright yellow.
Orange Ball. MARY-8GB. 25¢
 Dwarf double orange.
Orange Flame. MARY-8F. 20¢
 A new German variety.
Perfect Beauty. MARY-8PB. 25¢
 Large flowering, fully double, golden orange flowers with dark brown edge; very long and strong stemmed; compact habit; 12 inches. Oz. \$1.90.
Purple Crown. MARY-8PC. 20¢
 Showy new German variety.
Robert Beist. MARY-8RB. 20¢

- Rich maroon; 1 ft.
Royal Scot. MARY-8RS. 20¢
 All double; rich mahogany and gold com-

FIRETAIL. MARY-8FT. 30¢

A new type; entirely different than any Marigold on the market. Base color is a rich golden orange with a dozen or more dart or tongue-like reddish scarlet markings shooting up thru the wax-like golden orange petals from the base of the bloom; the single row of overlapping guard petals are the same color and have the same scarlet markings at base of petal. A striking color combination. Height 10-12 inches; 40-50 blooms per plant. Try this new Marigold this year. ¼ Oz. \$2.50.

- bination; 1 ft.
Rusky Red. MARY-8R. 20¢
 Double; rusty red, gold edged on frilled petals; new.
Scarlet Glow. MARY-8G. 20¢
 Showy scarlet flowers.
Sunbeam. MARY-8SB. 20¢
 Pure golden yellow; pretty; 15".
Tangerine. MARY-8T. 20¢
 New; tangerine-orange; full double, 2" ac
Double Monarch. MARY-8DM. 20¢
Above Mixed. MARY-8X. 20¢

DWARF SINGLE FRENCH:

- Ferdinand.** MARY-9F. 20¢
 Golden yellow with mahogany-red; 2 ft.
Fire Cross. MARY-9FC. 20¢
 Deep orange-yellow, blotched maroon; 10".
Flash. MARY-9FL. 20¢
 New red and gold bicolor; dandy; good for pots or border; 15".

DAINTY MARIETTA. MARY-9DM. 30¢

A new variety and really a dainty Naughty Marietta. Blooms are much larger; plant dwarf and compact; fls 2" across in soft golden yellow with a crimson blotch at the base of each petal; the small crested center is very showy; plants not above 6 inches. ½ Oz. \$2.00.

- Gold Edged.** MARY-9GE. 20¢
 Showy single variety.
Legion of Honor. MARY-9LH. 20¢
 Pretty yellow, blotched brown; dwarf.
Naughty Marietta. MARY-9NM. 20¢
 Light yellow, maroon blotch; single.
Above Mixed. MARY-9X. 20¢

MINIATURE DOUBLE FRENCH: Excellent for pots, edging or low beds.

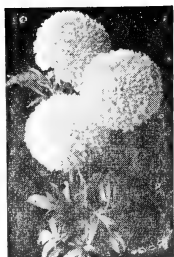
- Butterball.** MARY-10B. 20¢
 Soft yellow with maroon center; 8".
Spry. MARY-10SP. 20¢
 Yellow crested with red guards; 9".
Sunkist. MARY-10S. 20¢
 Bright golden orange; good with Butterball; 8 inches.
Yellow Pigmy. MARY-10YP. 20¢
 A very dwarf bright yellow; 10".
Gem Mixture. MARY-10GX. 20¢
 New dwarf mixture; neat form; continuing all the best varieties.

CARNATION TYPE AFRICANS: Carnation-type flowers with fluffy broad petals and nearly 100% double; 2½ ft.

- Burpee Gold.** MARY-3BG. 20¢
 Odorless foliage; bright gold.
Golden Crown. MARY-3GC. 20¢



FERDINAND



TALL AFRICAN

- Dwarf strain in golden yellow; low beds.
 —**Yellow Supreme.** MARY-3YS. 20¢
 —Pretty lemon-yellow.
 —**Golden West.** MARY-3GW. 20¢
 Early; dwarf strain of Guinea Gold; 2 ft.

FRENCH MARIGOLDS: Mainly small 12-15 inch plants, with smaller flowers than the Africans; they are especially good for beds and borders; many varieties are ideal for edging. This type does better if planted where they are to grow, as they do not take well to transplanting; they also do better if the soil is not extra rich nor too moist.

NEW HARMONY TYPE: These have a crested form flower; excellent for beds.

- Gold Crest.** MARY-6GC. 20¢
 Deep golden orange, 2" ac; quilled petals; 8 inches.
 —**Golden Harmony.** MARY-6GH. 20¢
 Luminous golden yellow; 1 ft.
 —**Clinton.** MARY-6C. 20¢
 Orange; frilled and waved petals; odorless foliage.
 —**Golden Supreme.** MARY-6GS. 20¢
 Larger fls than Golden Harmony; 18".
 —**Harmony.** MARY-6H. 20¢
 Deep orange, maroon color; 1 ft.
 —**Melody.** MARY-6M. 20¢
 Clear all golden yellow, 1½" ac; 1 ft.
 —**Orbit.** MARY-6B. 20¢
 Golden yellow center, reddish brown guards; 1 ft.
 —**Spotlight.** MARY-6SL. 20¢
 Yellow center, mahogany border; early; 1 ft.
 —**Winter Harmony.** MARY-6WH. 20¢
 Winter flowering type for the GH.
 —**Dwarf Harmony.** MARY-6DH. 20¢
 Uniform 11" plants; 2-tone lemon and dark red.
 —**Harmony Types Mixed.** MARY-6X. 20¢
 Double hybrids for cutting.
 —**Tall Harmony.** MARY-6TH. 20¢

TALL DOUBLE FRENCH: 30 inches high.
 —**Australian Giant.** MARY-7AG. 20¢
 Tall double or grendon tree; brownish uous bloom.

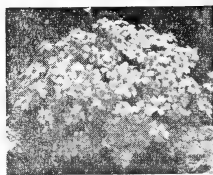
TAGETES SIGNATA PUMILA:

- Gnome.** MARY-11G. 20¢
 A dwarf compact single orange; RG; 6".
 —**Signata pumila.** MARY-11SP. 20¢
 Bright yellow; tiny single fls; edging; 8".
 —**Little Giants.** MARY-11LG. 20¢
 —**Ursula.** MARY-11UR. 30¢
 Compact plants with golden orange fls. ½ Oz. \$1.00.
 —**tenuifolia, Golden Ring.** MARY-GR. 20¢

LULA.

The first lemon-yellow Marigold and, like the well-known orange variety, a first-class plant for bedding and edging. Compact, dome-shaped plants which are covered with flowers throughout the summer and autumn months; 21 inches; HHA.

MARY-11L. 30¢



MARIGOLD — Gnome

MARJORAM, Sw't: see *Origanum majowna*.

MARKHAMIA.

Bignoniaceae. Tropical shrubs and trees; large tubular-funnel-form fls; (X).

- Hildebrandtii.** MARK-6. 50¢
 From East Africa; (X).

MARJORAM: see *Origanum hortensis*.

MATHIOLA

Stocks. Cruciferae. Annuals and perennials, some sub-shrubs, native mostly of Mediterranean and commonly known as Stocks. Flowers are in lilac, purple and white, in terminal racemes. *M. bicornis* is the Evening Stock or Perfume Plant, very fragrant in the evening but the flower is closed during the day. *M. incana*, the Common Stock or Brampton Stock or Gilliflower; and a type of it is the Ten-Weeks-Stock; C-1; (mat-THY-oh-lah).

M. INCANA: Sturdy erect plants in many colors. They make good flowers both out in the spring or summer sown seed will make good house plants for winter; they are handled as HHA; C-7; they have cordial properties, when added to green salads.

DOUBLE GIANTS OF CALIFORNIA:

A superb branching type with immense spikes of very large florets. The following varieties all produce a high percentage of double flowers. ½ Oz. \$2.00; Oz. \$3.80.

- Golden Gate.** MACH-1G. 40¢
 Rich yellow flowers.
 —**Red Woods.** MACH-1R. 40¢
 Blood-red, a popular color.
 —**Roselight.** MACH-1Z. 40¢
 Rose-pink. ½ Oz. \$2.90; Oz. \$5.00.
 —**Santa Barbara.** MACH-1B. 40¢
 Chamois.
 —**Santa Maria.** MACH-1M. 40¢
 Nice white.
 —**Sequoia.** MACH-1S. 40¢
 Rose-carmine.
 —**Yosemite.** MACH-1Y. 40¢
 Pure rich rose.
 —**Blend of Above.** MACH-1X. 30¢
 ½ Oz. \$2.00; Oz. \$3.50.

DOUBLE GIANT FLOWERING STOCKS:

Immense, fully double, closely spaced flowers, on 2-2½ ft spikes per plant; strictly non-branching; C-7.

Sow non-branching Stocks about Jan.

5-10 for Memorial Day and early May.

- Ball's No. 2. MACH-2BW. 50¢
Large white spike tinged pink.
- Ball's No. 14. MACH-2Z. 50¢
Rose-pink, deep color.
- Gardenia. MACH-2G. 50¢
Very large single pure white.
- Purity. MACH-2W. 30¢
Non-branching pure white.
- Special Perfection, Mixed. MACH-2P. 50¢
About 55% light leaved and 45% dark;
the light giving extra double fls.
- Blend of Above. MACH-2X. 50¢

ANY ABOVE: Oz. \$8.00.

EARLY GIANT IMPERIAL: Branching habit; flowers on long stems making it a desirable cutting type; 2 ft; high double centage.

- Blood-red. MACH-3B. 20¢
- Chamois. MACH-3C. 20¢
Ivory tinged with rose.
- Fiery Red. MACH-3R. 20¢
- Rose. MACH-3Z. 20¢
- Rose Charm. MACH-3RC. 20¢
- Roselight. MACH-3RL. 20¢
- White. MACH-3W. 20¢
- Blend of Above. MACH-3X. 20¢

ANY ABOVE: 1/4 Oz. \$2.00; Oz. \$8.00.

TEN-WEEKS-STOCK: Dwarf compact, and fine for bedding; sweet scented; 12"; grow as an annual; very early; start seed early indoors or they can be planted direct to the garden.

- Dark Blue. MACH-4D. 20¢
- Finest Mixed. MACH-4X. 20¢

OTHER MATHIOLA SPECIES:

- bicornis. MACH-10. 35¢
Night Scented Stock, Perfume Plant. Fls rosy lavender; HA. Oz 60¢.
- inodorum V. Bridal Robe. MATI-3B. 30¢
True stock.

VIRGINIA STOCKS: see *Malcomia*.

MATRICARIA. (mat-re-KAY-re-ah)
Matricary. Compositae. Mainly annuals with a few perennials, with finely cut foliage and small flower heads. They are easily grown treating them as you would *Chrysanthemums*.

- Chamomilla. MATI-2. 25¢
Sweet False C. White fls; 2 ft; HA.
- eximia: see *Chrysanthemum Parthenium*.
- globifera. MATI-4. 25¢
Yellow rayless button-like fls; 1 1/2 ft; HHA; S. Af.
- HHA. Oz. \$1.70.
- Indo-a v. B-idal Robe. MATI-3B. 25¢
Very double heads; white ray fls; 2 ft;
- Snowball. MATI-3S. 20¢
Small double heads; white ray-fls; 2 ft; HA. Oz. \$2.00.
- parthenoides: see *Chrysanthemum par.*

MAURANDIA. (mau-RAN-de-ah)

Scorophulariaceae. Bright flowered plants, mostly vines, for the GH or outdoors in the side and in the greenhouse; sow seed early far South. If seed is sown early they make excellent basket or window-box plants for the summer; they need a 60 deg. F. temperature and a fibrous loam soil with some leaf mould and cow manure when grown in GH.

- Purpurea a. MATI-3. 50¢
Purple fls, downy outside. Oz. \$7.00
- erubescens. MAU-4. 50¢
Free blooming; pink fl'd vine. (M. scandens.)
- Lophospermum. MAU-5. 30¢
(*Lophospermum scandens*) Climbing Fox-

glove. Rose flowers.

—Mixed.

MAUR-X. 30¢

MECONOPSIS

Papaveraceae. Annuals, biennials and perennials, requiring a cool moist summer, a sheltered and partly shaded place. They make attractive plants in the border; start the annuals early indoors, setting them out after frost danger; the perennials are best started in a frame over the first summer; fls are in racemes or panicles; some are hardy, other semi-hardy in the North; the NW Coast states are ideal for them; do not disturb when established; the seed germinates best after a cold spell; C-24. Most *Meconopsis* are monocarpic but if the center bud is cut off, the plant will live over several years instead of dying after flowering; best increased by seed

- betonicifolia. MECO-2. 30¢
Purple fls in clusters, 2" ac; 6 ft; HP.
- Baileyi. MECO-2B. 30¢
Very similar to above.
- cambrica. MECO-3. 30¢
Welch Poppy. Pale yellow fls 3" ac; solitary; 1 1/2 ft; HP.

- aurantiaca. MECO-3A. 30¢
Orange flowered type of above.
- calthitii. MECO-5. 30¢
Golden yellow fls, 2-3" ac; HP.
- horridula. MECO-9. 30¢
Light blue or claret; solitary; 5 ft; HB.
- integrifolia. MECO-10. 30¢
Yellow Chinese Poppy. Yellow, 6" ac; 3 ft; HB.

- napaulensis. MECO-13. 30¢
Satin Poppy. Pale blue satiny fls 2" ac; 6 ft; HP.
- Red Form. MECO-13R. 40¢
- paniculata. MECO-14. 30¢
Yellow fls 2" ac. in racemes 2 ft long; 5 ft; HP.

- Gray Rosette. MECO-14G. 40¢
Fine new form with gray rosettes.
- quintuplinervia. MECO-16. 40¢
Lavender to purple fls 3 1/2" ac; RG; 1 ft; HP.
- simplicifolia. MECO-18. 40¢
Nodding blue or purple solitary fls, 3" ac; 2 ft; HP.
- Plum Red. MECO-18P. 50¢
A nice new plum-red form.

- superba. MECO-21. 40¢
White fls to 5" ac; woodland; shade; 3-4 ft; Tibet; HP.
- villosa. MECO-22. 40¢
Yellow fls, 2" ac; 2 ft; Himalayas
- Mixed. MECO-X. 25¢

MEDEOLA. (med-DEE-oh-luh)

Liliaceae. One HP, tuberous rooted plant; edible; N. Amer.

- asparagoides: see *Asparagus asparagoides*
- virginiana. 25¢
Indian Cucumber Root. 2 ft; fls small, greenish yellow; (IV).

MEDICAGO. (med-ik-KAY-yuh)

Medick. Leguminosae. Annual and perennials a few shrubs, some of which are ornamental.

- arboresc. MEDI-3. 30¢
Tree Alfalfa; (VIII); 8 ft; orange-yellow.

MELALEUCA. (mel-al-LEW-kuh)

Bottle-Brushes. Myrtaceae. Noted for their abundance of flowers, breath-taking brilliance of coloring, in some species, and are generally hardy in Australia where most are natives. The flowers are brush-like, similar to the

Callistemon; in red, white or orange; some fls are like Eucalyptus; best to cut back hard after flowering (X).

—**decussata**. **MELL-4. 40¢**
Purple Bottle B. Small lvs. dense twigged shrub; purple fls.

—**eleptica**. **MELL-5. 50¢**
Red fls in spikes 3" long; Australia.

—**ericifolia**. **MELL-6. 50¢**
Sh. or Tr; Yellowish whitefls in spikes 1" long; Australia.

—**hypericifolia**. **MELL-10. 25¢**
Tall shrub; fls rich red in dense spikes 3" long; (IX); Australia.

—**Leucadendra**. **MELL-14. 30¢**
Punk Tree. Creamy white fls; nice; (IX).

—**pubescens**. **MELL-24. 40¢**
Spreading, bushy sh; white or cream fls in spikes 1" or more long; Australia.

—**stypheoides**. **MELL-28. 35¢**
Australian tr to 80 ft; creamy white fls in spikes, 2" long.

—**Mixed**. **MELL-X. 25¢**

MELANTHIUM.

Bunch Flower. Liliaceae. Per. with stout root stalks and good for wild- or bog-garden.

—**virginicum**. **MELM-5. 40¢**
Decid; 2-4 ft; greenish yellow fls; July-Aug; moist shady places. **PLANTS: 75¢; 3 for \$1.75.**

MELIA. (MEE-lee-uh)
Bead-Tree. Meliaceae. Tropical trees and grown in the far South.

—**Azedarach**. **MELA-3. 30¢**
Pride of India China Berry, Indian Lilac. Not easy; best to have seeds delivered when fresh; it is claimed it is better not to remove from husk; warm soil, 70 F or better; bottom heat necessary in cool regions. **Oz. 50¢; lb. \$5.00.**

MELIANTHUS. (mel-ee-ANTH-us)
Honey-Bush. Melanthaceae. Tropical perennial in the South. They are pretty and decorative.

—**major**. **MELH-4. 40¢**
Honey Bush. Brownish fls, summer; 4-6 ft; elegant leaved plant, thriving in well drained soil; herbaceous; HHP; (IX); Calif.

MELICA. (MEL-ik-uh)
Melic Grass. Graminaca. Ornamental perennial grass, hardy in the S; 3-4 ft.

—**transilvanica**. **MELI-4. 25¢**

MELICHTUS.
Violaceae. Dicotyledonous trees and shrubs from (IX) and (X) zones; fls in clusters.

—**amiflo-us**. **MELY-5. 30¢**
Small tree; white bark; green fls followed by small blue berries; 15 ft; evergreen.

MELIOSMA.
Sabiaceae. Tropical trs and shs from Asia; grown in (XI) zone.

—**myriantha**. **MELM-5. 50¢**
Tr to 30 ft; greenish yellow fls in erect panicles, 8" long; Japan. **Oz. 75¢; lb. \$5.00.**

MELISSA. (mel-IISS-uh)
Labiatae. Balm. Erect perennial medicinal herbs; start seeds early indoors.

—**officinalis**. **MELS-1. 25¢**
Balm. Lemon scented lvs used in flavoring soups, etc; dried, makes tea; try a sprig, crushed, in cider; sow in May; trans-

plant in fall; 2½ ft; the plant makes a nice stimulating tea. do not boil; promotes sweating; HP.

—**Quedlinburg Down Laying**. **MELS-IE. 35¢**
—**Erfurt Upright Growing**. **MELS-IA. 35¢**

MELOCACTUS. (mel-oh-KAK-tus)
Turk's Cap Cactus. Full sun; liberal watering during growing season, fairly dry during winter; rich gravelly soil, extra leaf mould.

—**oaxacensis**. **MELK-21. 60¢**

MENTHA. (MENTH-uh)
Mint. Labiata. Easily grown herbs and used for its aromatic oil as well as ornamental.

—**piperita**. **MENT-12. 50¢**
Peppermint. 3 ft; HP. ¼ **Oz. 54.00.**

—**pulegium**. **MENT-13. 50¢**
Pennyroyal. **Oz. \$1.30.**

—**spicata**. **MENT-19. 50¢**
Spearmint. (viridus) 3 ft; HP

—**viridis**. **MENT-9V. 50¢**

MENTZELIA.

Loasaceae. Amer. plants and shrubs with very showy fls; sow seeds where they are to grow; seed can be sown in the open in mid-April; thin out and never allow plants to get dry; easy.

—**Lindleyi**. **MENTZ-8. 30¢**
(Bartonia aurea) Golden yellow fls 2½" across; 4 ft; TA; seed can be sown in the open ground in mid-April; thin out early any never allow plants to get dry.

One of the most brilliant of all annuals; large golden yellow fls resembling those of St. John's-wort; 2 ft; HA.

—**pentandra**. **MENTZ-8. 50¢**
Whittish fls; Japan. ¼ **Oz. \$2.00.**

—**purpurea**. **MENTZ-14. 50¢**
Bright red campanulate fls, 1½" long.

MENVANTHES. (men-ee-ANTH-eez)
Bog-bean; Ruckbean. Gentianaceae. One cold climate herb for wet places.

—**trifoliata**. **MENY-1. 40¢**
Found in peat bogs and calm water; has creeping root-stalk; blooms in June in Alaska; white fls tinted pink; germinate it in water.

MENZIESIA.
Ericaceae. Low decid. shs with bell- or urn-shaped fls in terminal clusters, followed by capsular fruits; RG.

—**viridula**. **MENTZ-3. 50¢**
Fls yellowish green, tipped purple, ½" long; Japan. ¼ **Oz. \$1.00.**

MERCURY; see **Chenopodium Bonus-Henricus**. A perennial pot-herb.

MERTENSIA.
—**virginica**; see in plant list.

MESEMBRYANTHEMUM.

Aizoaceae. Fig-Marigold. Some 1,000 species of the Cacti group. They are from hot dry regions and grown as pot plants, making interesting subjects for the house.

These are amongst the most colorful of the succulents and with the largest variation in form and shape; fls are in very vivid hues; C-9.

Sand, leaf mould and loam in varying proportions is the best soil mixture; usually 1/3 part leaf-mould to 3 of coarse sand, with a little loam; the mixture must

not be too rich; keep dry during winter.

—**cordifolium**: see **Aptenia cordifolia**.

—**crinidorum**: see **Dorotheanthus**.

—**crisallinum**. **CRYO-3. 25¢**
Ice Plant. See **Cryophytum crystallinum**.

MESPILUS. (MESS-pil-us)
Rosaceae. One deciduous tree grown for its edible fruit.

—**germanica**. **MESP-1. 30¢**
Medlar Tree to 20 ft; fruit edible; (IV).
100 seeds to oz. c. s. **Oz. 50¢**; lb. \$2.50.

METOTHRIA.
—**scabra**. **MELO-3. 30¢**
Sow seeds in April; TA.

METROSIDEROS. (mee-thoh-sid-DEER-os)
Myrtaceae. Odd shrubs and trees of New Zealand with showy flowers in white or red; very ornamental; (IX).

—**notida**. **METR-4. 40¢**
Will climb high trees; fls orange-red; beautiful creeper; will also creep over exposed clay banks.

—**tomentosa**. **METR-14. 30¢**
New Zealand tree to 50 ft; nice dark foliage; masses of crimson fls; blooms very young; (X).

MIBORA.
—**verna**. **MIRO-1. 50¢**
A rare tiny flowering grass for the RG; carpeting; HHHb.

MICHELIA. (my-KEE-le-ah)
Magnoliaceae. Trees and shrubs native of Asia; much like Magnolias; (VIII).

—**Cathcartii**. **MICH-1. 35¢**
—**Champaca**. **MICH-3. 30¢**
Yellow or orange flowers; very fragrant; evergreen tree; (IX).

—**compressa**. **MICH-2. 40¢**
(Magnolia c.) Ev tr to 40 ft; yellow, fragrant fls, 1" ac; Japan. **Oz. 80¢**.

—**repens**. **MICH-10. 35¢**
MICROLEPIA. (my-kroh-LEE-pi-ah)
Polypodiaceae. Graceful GH trop. Ferns.

—**speluncae**. **MICF-4. 50¢**

MICRAMPELIS: see **Echinocystis**.

MICROMERIA. (mye-kroh-MEER-ee-uh)
Labiateae. Perennials, usually trailing; RG.

—**rupestris**. **MIC-20. 40¢**
Prostrate; white fls spotted lavender; in many-flowered clusters; HP.

MICROSORIUM.
—**diversifolius**. **MIES-8. 40¢**
A nice New Zealand fern.

MIGNONETTE

(Reseda.) Resedaceae. Mignonette belongs to the genus *Reseda* of which there are 3 or 4 species with *R. odorata* the common Mignonette. They are noted for their fragrance; are tender annuals and when started indoors are best handled in pots as they do not transplant easily; thrive in a cool, moderately rich soil, in partial shade; in GH grow in the cool part at 48 degrees F.

RESEDA ODORATA: They comes in many varieties: sow 1/4" deep in pans, during March, and have on out doors in April and May; for early fls they can be started in Aug. for GH growing.

—**Allen's Delicance**. **MTG-1A. 20¢**
Compact; florets immense sized; fragrant.

—**Machet Giant**. **MIG-1M. 20¢**
Pyramidal growth; very nice; 1 ft.

—**Golden Goliath**. **MIG-1MG. 20¢**

Golden yellow fls; 1 ft.

—**New York Market**. **MIG-1MY. 20¢**

Large spikes; fine texture; forces. **Oz. \$1.00.**

—**Red Goliath**. **MIG-1MR. 20¢**

Large red fls; special; 1 ft; fragrant.

—**White Goliath**. **MIG-1MW. 30¢**

Best large white variety.

—**Mixed Machets**. **MIG-1MX. 20¢**

—**Bismarck**. **MIG-1B. 20¢**

Beautiful flat top and large spikes.

—**Gabrielle**. **MIG-1G. 20¢**

Robust; heavy red spikes.

—**Giant Pyramidal**. **MIG-1P. 20¢**

—**Red Monarch**. **MIG-1R. 20¢**

Deepest red; perfect form.

—**Victoria**. **MIG-1V. 20¢**

Brilliant red.

—**Blend of All Above**. **MIG-1X. 20¢**

MIKANIA. (mik-KAY-nee-uh)
Climbing Hemp. Compositae. Twining plants or shrubs with white or pink disk fls in panicle cymes; allied to Eupatorium.

—**scandens**. **MIKA-1. 30¢**
Climbing Hempweed or Boneset. Unusual vine with many clusters of pinkish white fls; very nice.

MILLA. (MILL-uh)
Mexican Star. Liliaceae. One nice bulbous plant hardy in the (IV).

—**biflora**. **BULBS: Doz. 80¢; 100, \$5.00; 1,000 \$35.00.**

MILLETTA.
Leguminosae. Trees, shrubs and vines allied to the Wisteria.

—**caffra**. **MILL-1. 30¢**
S. Af. tr. to 20 ft; purple fls in erect panicles.

—**oblata**. **MILL-2. 40¢**
South Rhodesian Tree Wisteria; (X).

MIMOSA. (mim-MOH-suh)
Sensitive Plant. Leguminosae. They are mainly tropical subjects; some are GH plants in the North.

—**pubica**. **MIMO-7. 25¢**
Sensitive Plant. Lavender fls; grow as a TA; (VIII); leaves close quickly when touched. **Oz. 75¢.**

—**Speggazzinii**. **MIMO-11. 35¢**
Shrub; rose-purple fls heads; (VI).

MIMULUS. (MIM-yew-lus)
Monkey Flower. Scrophulariaceae. It comes in many types; mainly warm region subjects; (IX); C-9.

—**ca-dialis**. **MIM-9. 25¢**

Scarlet and yellow fls; 1 ft; (IX); per.

—**cupreus Hybrids**. **MIM-10. 25¢**

Large flowered Chilean; much like *M. tigrinum*.

—**guttatus**. **MIM-15. 25¢**

Yellow, spotted throat; 18"; HA or HP; (II).

—**Red Emperor**. **MIM-15R. 35¢**

—**mo-cha us**. **MIM-23. 35¢**

Musk Plant Spreading HP; pale yellow fls long; Montana.

—**ring-s**. **MIM-30. 30¢**

Allegheny M. 4 ft; fls vary from blue to pink and white; (II).

—**Whitecroft Scarlet**. **MIM-15W. 30¢**

The neatest and brightest of the genus; 3"; HP.

—**tiginus**. **MIM-32X. 25¢**

- Large flowered hybrids.
 —Fine Spotted & Tigered. MIM-32T. 25¢
 —Mixed. MIM-X. 20¢
MINA: see **IPOMOEA** and **QUAMOCLIT**.

MIRABILIS

Four O'Clocks, Marvel of Peru. Nyctaginaceae. Annuals and perennials, all of which are tender and grown as tender annuals in the North. The seeds are best sown where they are to grow; the roots can be dug up in the fall and wintered over like Dahlias; C-7. (my-RAB-i-lis).

- Jaapa. **MIRA-6X. 20¢**
 Four O'Clocks. Red, yellow and white; 3 ft; TP grow as TA. Oz. 35¢.
 —Dwarf Mixed. **MIRA-6DX. 20¢**
 A dwarf compact type; 2 ft.
 —Dwarf Variegated. **MIRA-6VX. 20¢**
 Variegated leaves; 2 ft.
 —longifolia White. **MIRA-7W. 25¢**
 3 ft; TP grow as TA.
 —Violet. **MIRA-7V. 20¢**
 —Mixed. **MIRA-7X. 20¢**
 —multiflora. **MIRA-8. 25¢**
 —uniflora. **MIRA-10. 25¢**
 Bright rose; showy and unusual; free blooming.
 —Mixed Mirabilis. **MIRA-X. 20¢**

MISCANTHUS.

(mis-KANTH-os)

Eulalia. Gramineae. Tall ornamental grasses with awned spikelets in large silky terminal panicles; have a striking effect.

- sinesis. **MISC-2. 25¢**
 (Eulalia japonica) To 10 ft; panicles 2 ft long; hardy in (IV).
 —zebrinus. **MISC-2Z. 35¢**
 Zebra-Grass. Leaves banded; ornamental grass; 10 ft; (IV). 1/8 oz. 80¢.

MITCHELLA.

Rubiaceae. One N. Amer. evergreen plant good in the RG or for ground cover under trees.

- evans. **MITC-2. 40¢**
 Partridge-Twin- or Squaw-Berry. Dark shining green lvs; white fls, 1½" long; scarlet berries; HP.

MITELLA.

Bishop's-cap. Saxifragaceae. Small per. woods plants useful in wild garden.

- diphylia. **Plants Only.**
 Decid; 3-5 in; heart-shaped lvs; small white fls; April-May; rich well drained soil. **PLANTS: 80¢ each; 3 for \$1.50.**

MOLTKIA.

(MOLT-kee-uh)

Boraginaceae. Perennials; rocky plants.

- petraea. **MO-T. 5. 35¢**
 (Lithospermum) Deep blue fls; HHP.

MOLUCCELLA.

(mol-eu-SEL-ah)

Labiatae. Annuals; sow seeds early in the spring or late in the fall.

- laevis. **MOLV-2. 25¢**
 Bells of Ireland. Shell-flower, Mollucca-Balm. White fragrant flowers; 3 ft; sow early in the spring or late in the fall; HA. The seeds germinate best after a cold period; flats should be set outside for a period and then brot inside at 65-75 F. Moist seed in vermiculite can be placed in refrigerator for 6-8 weeks at 35-40 F.

MOMORDICA.

(mom-MORD-ik-uh)

Charanthea, Balsam Apple. Cucurbitaceae. Two annual vines, easily grown from

seed.

- Balsamia. **MOMO-1. 25¢**
 Balsam Apple. Vine; orange fruits; TA. 225 seeds per oz. Oz. 95¢; lb. \$8.00.
 —Charanthia. **MOMO-2. 25¢**
 Balsam Pear. Ornamental vine; orange-yellow fruits; TA.

MONARDELLA.

(mon-ahr-DEI-ah)

Labiatae. Fragrant western Amer. plants, both annual and perennial; grown in the rocky in light sandy soil.

- villosa. **MONA-8. 25¢**
 Purple, pink and white, 2-lipped fls; hot places; 6"; HP.

MONARDIA

Horse Mint. Labiatae. Annuals and perennials native of N. Amer; they are striking plants in groups in the border or in beds; showy clusters of flowers; C-23.

- didyma. **MOND-3. 25¢**
 (Kalmiana) Bee Balm. Flowers in terminal clusters; 3 ft; HP.
 —superba rosea. **MOND-3S. 40¢**
 Large rose heads.
 —alba. **MOND-3A. 35¢**

—New Hybrids.

MOND-3H. 25¢

Seed saved from the Cabham Hall Strain which includes many new colors; attractive shades of pink, red, lavender, mauve, purple and ruby; 2-3 ft; HP.

—German Hybrids.

MIND-3GH. 25¢

A beautiful strain with many new colors.

—Danish Hybrids.

MOND-3DH. 30¢

—Cobham Hall Hybrids.

MOND-3CH. 40¢

—fistulosa.

MOND-5. 25¢

Wild Bergamot. Purple fls; 3 ft; (IV); HP.

—pectinata.

MOND-13. 25¢

(citridora) Lemon-mint. Fls yellowish white; HA.

—Mixed.

MOND-X. 20¢

MONTANOA.

Compositae. Shrubs or small trees, native of Mexico; start seeds indoors.

—bipinnatifida.

MON-2. 25¢

Flower heads 3" across; white rays; 8 ft; (X); GH.

MOONFLOWER: see **Calyonyction**.

MORAEA.

(mho-REF-uh)

Iridaceae. Mainly Af. plants, often listed under Dietes; they are not hardy in the N but grow well in the far S; (X); similar to Iris.

—catamulata.

MORE-3. 30¢

—Huttonii.

MO-E-10. 30¢

Rather tender; yellow fls.

—iridioides.

MORE-12. 30¢

To 2 ft; beautiful white flowers with yellow bands 1½" long; drought resistant.

—johnsonii.

MORE-11. 30¢

Large flowered form.

—polysiachya.

MO-E-20. 30¢

Best known; lilac with large yellow spots; 3 ft; (X).

—zambesiaca.

MO-E-30. 30¢

South Rhodesian species.

—Mixed.

MORE-X. 30¢

MORINA.

—betenocoides.

MORN-1. 30¢

Asian thistle-like flower; HP.

Get your perennials started by August.

MORUS.

(MOH-rus)

—**a.ba.** **MOA-U-2. 30¢**
White Mulberry. Tall tree; best sown in spring; takes several weeks to germinate or they can be sown late in the fall.

MUEHLENBACKIA.**MUEH-2. 30¢****MULGEDIUM:** see *Lactuca*.**MUSA-BANANA**

Banana. Musaceae. They are mainly indoor subjects in N; (IX); fresh seed usually in Nov. and Dec; most orders will be back-ordered and mailed as the fresh seed arrives.

—**Arnoldiana.** **MUSA-1. 50¢**
15 ft; (X); C-45. 100 seeds \$4.50.

—**E-seia.** **MUSA-5. 50¢**
Abyssinian Banana. (X); 40 ft; popular tub plant. 100 seeds \$2.00; 500, \$5.00.

—**a.a.** **MUSA-7. 50¢**
(*Coccinea chinensis*) Dwarf China ornamental banana with branches only 5 ft; ornamental red flower sheath.

—**paradisiaca v. sapientum.** **MUSA-9S. 50¢**
Plantain. Atall ornamental Himalayan wild Plantain; 30 ft; yellow fls; fr edible out of hand.

—**religiosa.** **MUSA-11. 50¢**
8 ft; not edible; India; (X). 100 sd \$4.00.

—**rosacea.** **MUSA-12. 50¢**
To 6 ft; not edible; India; (X). 100 sd \$4.00

MUSCARI.

(mus-KAY-ry)

Grape Hyacinths. Liliaceae. Spring flowering bulbs with urn-shaped nodding blooms in racemes or spikes; they are easily grown, both from seed and bulbs; grow them in mass plantings at edge of borders; see Fall Bulb List for bulbs.

—**album.** **MUSC-1. 25¢**
—**aureum.** **HYAC-2. 25¢**
(*Hyacinthus*) Flowers in erect racemes; 1 ft; HP.

—**comosum.** **MUSC-3. 35¢**
Blue or violet fls; 1 ft; HP.

—**latifolium.** **MUSC-8. 35¢**
Blue fls; 1 ft; very showy; HBB.

—**macrocarpum.** **MUSC-9. 50¢**
Unusual in having twany yellow fls; 3".

—**paradoxum.** **MUSC-16. 30¢**
Blue-black fls in dense racemes; 9"; Caucasus; HBB.

—**Mixed.** **MUSC-X. 25¢**

MUSSAENDA.

—**glabra.** **MUSS-10. 50¢**
A pretty Himalayan climber; large white leaf-like lobes in great profusion; TP.

—**Roxburghii.** **MUSS-12. 50¢**
Small tree with retty orange fls; large white leaf-like lobes; TP.

MYOPORUM.

(mve-OP-or-um)

Myoporaceae. Australian plants, fairly hardy there and useful for dwarf windbreaks, hedges, sand binders and specimen shrubs. There are some real gems in the genus.

—**insulare.** **MYOP-2. 40¢**
Australian sh or tr to 30 ft; fls 1 1/2" ac, white with purple spots; fr. purplish blue.

—**laetum.** **MYOP-4. 30¢**
Robust shrub to 25 ft; thick shining green leaves with translucent oil dots making small windows thru leaf; drought resistant; good wind-break or tub plant; purple berries; fls white with purple lines; (VIII). NY.

—**montanum.** **MYOP-5. 40¢**
5-12 ft; excellent for arid conditions; or

hedges; purple berries; W. A.-NSW; (XI). —**seratum.** **MYOP-6. 30¢**

Grown in the GH in the North; (IX).

MYOSOTIDIUM.

(oh-soh-TID-ee-um)

Boraginaceae. A single perennial native of Chatham Isles, N. Z.; azure-blue fls in dense cymes to 6" across; 2-3 ft; fresh seed.

—**hortensis.** **MYOT-3. 30¢**
The leaves are large and attractive, deep green and glossy, nearly as large as *Rhubarb*. The fls, 2 ft. high, are in heads 4-6" across bright blue. The soil must be mellow and never dried out; semi-shade; it

—**hortensis.** **MYOT-3. 50¢**
wait stand below 20 degrees F; seed very scarce

MYOSOTIS

Forget-Me-Not. Boraginaceae. Small annuals, biennials and perennials with many small blue, rose or white fls in terminal racemes. They thrive in a cool moist partially shaded place, blooming the second year unless started early; following hybrids C-31.

For GH growing sow mid-Aug; will flower in late Nov; they are good in corsages and small boquets.

HYBRIDS: These are the highly improved forms; start indoors early for good sized plants.

—**Carmine Bedder.** **MYOS--CB. 50¢**

The rose varieties, this new *Myosotis* is the deepest color and best for bedding; 6" tall; fls bright rosy carmine; exceptionally true in color and habit. 1/2 Oz. \$1.25.

—**A. Fischer.** **MYOS-1A. 25¢**

Deep blue, large fls; very choice; 8";

—**Blue Ball.** **MYOS-1B. 25¢**

Deep indigo-blue; compact ball-shaped plants; 10".

—**Blue Bird.** **MYOS-1D. 25¢**

A large flowered variety in dark blue.

—**Blue Eyes.** **MYOS-1E. 25¢**

Pretty bright blue with white eye.

1/4 Oz. \$1.00.

—**Gerda Seager.** **MYOS-1S. 25¢**

Blooms 8-10 days earlier; pretty blue.

—**Marga Seager.** **MYOS-1R. 25¢**

Excellent pot plant for forcing; large blue flowers.

—**Messidor.** **MYOS-1M. 25¢**

A rich blue color.

—**Star of Love.** **MYOS-1T. 25¢**

Sky-blue; nice pot plant; floriferous

—**Sylphe.** **MYOS-1W. 25¢**

A pure white form.

—**Victoria.** **MYOS-1V. 25¢**

Dwarf; dark royal blue. 1 1/4 oz. 75¢.

—**Above Mixed.** **MYOS-1X. 25¢**

OTHER SPECIES:

—**versis.** **MYOS-2. 25¢**

White and blue fls; best for naturalizing; 18"; HA or HB.

—**discolora caerulea.** **MYOS-8C. 25¢**

Pink blue; low habit.

—**Scorpioides, semperfloren.** **MYOS-1AS. 25¢**

Dwarf form; 6"; azure-blue.

—**longata.** **MYOS-1AS. 25¢**

(*oblongata*, *albina*) HA or B; 2 ft; deep blue fls; winter flowering type.

MYRICA. (MYE-rik-uh)

Myricaceae. Ornamental shrubs or small trees; unisexual fls in catkins; native of northern hemisphere.

—**pensylvanica.** **MYRI-6. 30¢**

(*M. caraliniensis*) Bayberry. 8 ft. sh. bearing clusters of waxy bluish white aromatic berries in late July to over winter; poor soils.

MYRICARIA. (mye-rik-KAY-ree-uh)

—*germanica*. **MYRK-1. 40¢**
False-tamarisk. Deciduous woody plant; 6 ft; fls in terminal bracted racemes; HSh.

MYRRHIS. (MIHR-iss)

—*odorata*. **MYRH-1. 35¢**
Sweet Cicely. Grown for its sweet scented leaves; sow seed when ripe for best results; HP.

MYRTILLOCACTUS.

Cactaceae. Short-trunked and tree-like Cacti; Central America.

—*geometrigans*. **MYRC-4. 50¢**
To 15 ft; fls 1" broad; fruits edible.

MYRTUS. (MERT-us)

—*bullata*. **MYRT-3. 50¢**
Striking evergreen shrub with reddish brown crinkled leaves intermingled in season with beautiful starry creamy white fls; branches reddish violet; 10 ft; (V); N.Z.

—*communis*. **MYRT-4. 30¢**
To 10 ft; sow in spring; GH in pits; (IX); it grows slowly. c.s. Oz. 75¢; lb. \$6.00.

—*nigra*. **MYRT-10. 25¢**
c.s. Oz. 50¢; lb. \$2.80.

—*Ralphii*. **MYRT-12. 40¢**
Erect branching shrub with slightly bronzy leaves; white starry fls and dark red berries; 10 ft; (IX); N.Z.

NANANTHUS.

—*Malherbei*. **NANA-8. 50¢**
—*Villetii*. **NANA-23. 50¢**

NANDINA. (nan-DYE-nuh)

Berberidaceae. Showy evergreen shrub; China; hardy in (V) zone; showy as GH plants.

Sow seed late in fall in cold frame; germinates next August when seedlings should be shaded; leave in beds next summer to be lined out in following spring.

—*domestica*. **NAND-1. 30¢**
Nice evergreen shrub for the (V) zone or a fine pot-plant in the N; 8 ft; berries red and ery showy. Oz. 50¢; lb. \$3.50.

—*alba*. **NAND-1A. 50¢**
Oz. 75¢; lb. \$4.00.

NASTURTIUMS

(*Tropaeolum*) Tropaeolaceae. This is a much confused classification with Water Cress, *Nasturtium officinale* being the only listed species. The flowers listed in the trade and also commonly known as Nasturtiums belongs to the Tropaeolaceae Family, with the genus *Tropaeolum* being the only member. Grow them as tender annuals giving them a warm sunny position, planting them direct; they make good fillers in Tulip beds.

SEMI-DOUBLE GLEAM: A popular type with double and semi-double fls; 18"; good for cutting. Oz. 30¢; 1/4 lb. \$80.

—*Apricot Gleam*. **NAST-1P. 20¢**

Bright light apricot.

—*Crimson Glow*. **NAST-1C. 20¢**

A deep glowing golden orange.

—*Fiesta*. **NAST-1T. 20¢**

Golden orange, blotched scarlet.

—*Fire*. **NAST-1F. 20¢**

All-double bright scarlet.

—*Golden Gleam*. **NAST-1G. 20¢**

A lovely golden yellow.

—*Loveliness*. **NAST-1V. 20¢**

Bright salmon-cerise.

—*Indian Chief*. **NAST-1N. 20¢**

A new double, sweet scented, dark lvs.

—*Moon*. **NAST-1M. 20¢**

Semi-double yellow.

—*Orange Gleam*. **NAST-1A. 20¢**

The best orange. variety.

—*Salmon Gleam*. **NAST-1S. 20¢**

Lovely rich salmon.

—*Scarlet Gleam*. **NAST-1L. 20¢**

Fine rich red.

—*Gleam Mixed*. **NAST-1X. 15¢**

GLOBE TYPE: Giant double flowers; 1 ft. plants; excellent bedder. Oz. 30¢.

—*Yellow King*. **NAST-2Y. 30¢**
A new yellow color; fls are clear banana-yellow; dark lvs; plants dwarf and compact. Oz. 40¢.

—*Apricot Queen*. **NAST-2AQ. 20¢**

—*Delightful*. **NAST-2D. 20¢**

—*Black Beauty*. **NAST-2B. 20¢**

Compact, very dark lvs; double fls, deep scarlet.

—*Fiesta*. **NAST-2F. 20¢**

Soft salmon-cerise.

—*Garnet Gem*. **NAST-2A. 20¢**

A deep crimson.

—*Golden Globe*. **NAST-2G. 20¢**

Excellent golden yellow.

—*Golden Rose Emperor*. **NAST-2R. 20¢**

Excellent rose with dark leaves.

—*Mahogany Gem*. **NAST-2M. 20¢**

A deep mahogany color; showy.

—*Orange Gem*. **NAST-2N. 20¢**

—*Scarlet Empress*. **NAST-2E. 20¢**

Fine scarlet with dark foliage.

—*Scarlet Globe*. **NAST-2S. 20¢**

A popular scarlet variety.

—*Globe Blend*. **NAST-2X. 15¢**

DWARF or TOM THUMB TYPE: All have single flowers; 1 ft high; will withstand more adverse conditions.

—*Empress of India*. **NAST-3E. 20¢**

Velvety dark scarlet with dark leaves.

—*Falham Beauty*. **NAST-3F. 20¢**

A brilliant scarlet.

—*Golden King*. **NAST-3G. 20¢**

A rich golden yellow.

—*Fireball*. **NAST-3B. 20¢**

Compact; dark leaves; bright scarlet flowers well above the foliage.

—*King of the Tom Thumbs*. **NAST-3K. 20¢**

Bright scarlet; dark leaves.

—*King Theodore*. **NAST-3T. 20¢**

Dark red; dark foliage.

—*Lady Bird*. **NAST-3L. 20¢**

Lovely rich yellow, scarlet spotted; dark foliage.

—*Pisang*. **NAST-3P. 25¢**

Flowers a fine banana-yellow color; dark leaves; dwarf and compact; NEW.

—*Ruby King*. **NAST-3R. 20¢**

Ruby-red; dark foliage.

—*Vesuvius*. **NAST-3V. 20¢**

Brilliant salmon-rose; dark foliage.

—*Blend of Above*. **NAST-3X. 15¢**

TALL or CLIMBING TYPE. To 3 ft; they should have support. Oz. 30¢; lb. \$2.75.

—*Chameleon*. **NAST-4C. 20¢**

Is in several blends of color.

—*Dunnett's Orange*. **NAST-4D. 20¢**

- One of the best orange varieties.
King Theodore. NAST-4K. 20¢
 Dark foliage; dark red flowers.
Pearl. NAST-4P. 20¢
 Lovely cream-white.
Prince Henry. NAST-4H. 20¢
 Clear yellow with red spots.
Salmon rose. NAST-4S. 20¢
Von Moltke. NAST-4V. 20¢
 A lovely rosy blue.
Tall Blend. NAST-4X. 15¢

LOBBIANUM: (N. peltophorium) Round leaves; single flowers; climbing.

- Spitfire.** NAST-5S. 20¢
 Intense red variety; dark leaves.
Lucifer. NAST-5L. 20¢
 Deep scarlet fls; dark leaves.
Beauty of Malvern. NAST-3M. 20¢
Mixed. NAST-5X. 15¢

- pergrinum.** TROP-7. 20¢
 Canary-Bird-Vine. See Tropaeolum.

NEMESIA. (nem-MEESH-ee-ah)

Scrophulariaceae. Very showy tubular fls in terminal racemes; easily grown as HA; start indoors; space 5 inches apart.

- strumosa Orange King.** NEME-10K. 20¢
 Compact; large orange fls; TA; C-16.
Aurora. NEME-10A. 20¢
 Bicolor, carmine and white.
Suttonii. NEME-10S. 20¢
 Dark scarlet flowers.
Orange. NEME-10SG. 20¢
Rose. NEME-10R. 25¢
Orange Prince. NEME-10P. 20¢
Blue Gem. NEME-10B. 20¢
 Compact large flowered blue.
Twilight. NEME-10T. 25¢
 Compact large flowered blue and white.
New Blue. NEME-10B. 20¢
Blend of Above. NEME-10X. 20¢
varicolor Five King. NEME-11K. 20¢
 Compact; dwarf; scarlet-crimson.
Mixed. NEME-11X. 20¢
Nemesia All Mixed. NEME-X. 20¢

NEMOPHILA. (nee-MOFF-il-ah)

Hydrophyllaceae. Low growing annuals easily grown; very showy for continuous spring and summer bloom; sow direct to soil: DW; C-2.

- maculata.** NEMO-2. 20¢
 Five-Spot. Deep purple spot on tip of each lobe; HHA.
Menziesii. v. crumbeoides. NEMO-3C. 20¢
 Baby-Blue-Eyes (incrimis) Blue; HHA.
 Germinates best in dark.
White. NEMO-1W. 20¢
atomaria. NEMO-3A. 20¢
 Paler blue, dotted purple or black.
Holborn Blue Bell. NEMO-14. 20¢
discoidalis. NEMO-3D. 20¢
 Bluish purple centers; white edges.
Mixed. NEMO-3X. 20¢
 Ounce \$1.00.
All Mixed. NEMO-X. 20¢

NEOLLOYDIA.

(WS, CG) Small clump-forming plants; very pretty.

- Requinii.** NEOL-3. 75¢
 Beautiful; white spines, tipped black.
cardiflora. NEOL-8. 60¢
 Violet fls; dark tipped spines

BACK-ORDERS: If you have any items that were back-ordered for one reason or another, always mention the name of the item if you have time an occasional write on them.

A fully revised issue of Catalog Dec. 1958.

NEPETA.

Catnip. Labiatae. Aromatic annuals and perennials with white and blue flowers in whorls, clusters or spikes. Some species are very pretty and can be grown in shade; easily grown and best sown where they are to grow.

- Cataria.** NEPE-3. 20¢
 Catnip. Whitish or pale purple fls; 1½ ft; used for Catnip tea; dry lvs for cats; HP.

- citriodora.** NEPE-3C. 25¢
Mussinii. NEPE-10. 25¢
 Persian Ground Ivy. Lavender-blue fls in whorled spikes; good grown cover; cut old fls off; 2 ft; (IV); very pretty; will fls in fall if cut back. Oz. \$2.50.

NEPENTHES.

Pitcher Plant. Nepenthaceae. Pots or baskets in very warm GH; start seeds in closed container at 60 deg. F or above.

- Khasiana.** NEPS-22. 75¢
NEPHELIUM: see Litchi and Euphorbia

NEPHROLEPSIS.

(Sword Fern)
cordifolia. (N. tuberosa) NEPF-7. 50¢
plumosa. NEPF-7P. 50¢
exaltata. NEPF-11. 50¢

NERIUM.

(NEER-ee-um)
Oleander. NERE-8. 25¢
 Oleander. Oz. 50¢; lb. \$2.00.

NERTERA

(NERT-er-uh)
 Liliaceae. Bog-Asphodel. Rhizomatous plants with grass-like leaves and small flowers in terminal racemes. Found in marshes of New Jersey.

- granadensis.** NERT-1. 40¢
 (N. depressa) Bead Plant. Orange fruits; ornamental; GH in North; (IX).

NICANDRA.

(nye-KAND-ruh)
Physalodes. NICA-1. 25¢
 Shoo-Fly Plant. Sky-blue bells, 1" ac; 3 ft; HHA.

NICOTIANA

Flowering Tobacco. (nik-oh-she-AY-nuh)
 Solanaceae. Large tender annual or perennial plants with long tubular, fragrant fls in white, yellow, greenish or purple, in terminal panicles or racemes; many night blooming; easily grown; popular; LW; C-9.

The N. tobacum varieties, the commercial types, must be germinated in the light. N. arvensis and sativa best germinated in the dark.

- alata gr. fl. Daylight.** NICO-3D. 25¢
 (affinis) Jasmine Tobacco. Pure white fls remaining open during day light. ½ Oz. 60¢.

- Daylight Sensation.** NICO-3DX. 25¢
 New color range; excellent; compact habit. 1½ Oz. 75¢.

- French Hybrids.** NICO-2F. 20¢
Sweet Scented White. NICO-2W. 20¢
Hybrids. NICO-2H. 20¢

- Sanderae. Crimson King.** NICO-2K. 20¢
 Salver-form fls; crimson; hybrid; 3 ft; TA.

- suaveolens.** NICO-2L. 20¢
 White nodding flowers; fragrant; 2 ft; TA.

- silvestris.** NICO-2S. 20¢

- Mixed.** NICO-X. 20¢

NIEREMBERGIA. (nee-rem-BERG-ee-uh)

Solanaceae. Cup-flower. Herbaceous annual and per. that are hardy up to zone (V) or

(IV); they are showy garden subjects.

- hippomonica.** **NIER-7. 25¢**
Large blue fls all summer long; C-22.
- Purple Robe.** **NIER-7P. 25¢**
Fine purple variety.



NEMOPHILA—Baby Blue Eyes

- NIGELLA.** (nye-JELL-uh)
Fennel-flower. Ranunculaceae. C-2.
- damascena, Miss Jekyll.** **NIG-3J. 20¢**
Love-in-a-Mist. Double indigo-blue fls; 18".
- hispanica.** **NIG-6. 20¢**
- Miss Jekyll.** **NIG-6J. 20¢**
Excellent variety with large white flowers; HHA.
- Miss Jekyll** **NIG-6D. 25¢**
Double indigo-blue fls.
- Miss Jekyll.** **NIG-6S. 25¢**
Double sky-blue flowers.

- NOLANA.** (nol-LAY-nuh)
Nolanaceae. Perennials grown as annuals with showy blue tubular fls; they make good basket plants, or in RG or border; sun; Chile, Peru.
- atriplicifolia alba.** **NOLA-1. 25¢**
White flowers, 2" across; 1 ft; good basket or window box plant. ½ Oz. 40¢.

NIPHOBOLUS: see Cyclophorus Lingua.

- NOLINA.** (NOLT-ee-uh)
Liliaceae. A desert plant producing a tree-like trunk; small whitish fls and stiff linear lvs; for warm sections.
- the rest.** **NOLI-2. 25¢**
Pebb'n Grass, Bunch Grass. HP: 2-4 ft; dull white fls in terminal panicles; found in limestone soils
- longifolia.** **NOLI-3. 25¢**
(Dasyliron) Desert plant; 10 ft.

- NOMOCHARIS.**
- ageria.** **NOMO-2. 25¢**

- NOTHOFAGUS.** (noth-oh-FAY-gus)
Fagaceae. Beech-like sh and tr found in S. Hemisphere; hardy only in (X) zone; it is very likely, the seed should be planted as fresh as possible; plant in good leaf mould.
- uca.** **NOTF-10. 40¢**
To 100 ft. (X); N. Z.; reddish autumn tints in foliage.
- Memie.** **NOTF-11. 50¢**
Tr to 80 ft; N. Z.

- NOTHOLIRION.**
Liliaceae. Asiatic plants similar to Lilium.
- macrophyllum.** **NOTP-10. 40¢**

1 ft; deep rose fls; rare; Himalayas

- NOTHOPANAX.** (noth-oh-PAY-nax)
Araliaceae. Evergreen trees and shrubs from the S. Pacific; those offered are ornamental; (IX).
- arboreum.** **NOTH-3. 35¢**
N. Z. tree to 20 ft; purplish black fls in compound umbels; (IX).

- NOTOCACTUS.**
(WS, CG) Very pretty; free flowering; easy from seed..

- apricus.** **NOTO-3. 50¢**
Yellow fls 1¼" long; 2" diam; Uruguay.
- mammulosus.** **NOTO-11. 50¢**
Strong, robust grower; yellow flowers.
- pampeanus.** **NOTO-17. 40¢**
Globose; 4"; yellow fls; S. America

NUTTALLIA: see *Osmaronia*.

OCHNA.

- Ochnaceae. Trop. trs and shs with leathery lvs; yellow fls followed by fruits; (IZ).
- multiflora.** **OCHN-5. 40¢**
Sh to 5ft; can be grown as GH pot plant in well drained fibrous loam; 140 sds to oz.

OCIMUM.

- (OSS-im-um)
BASIL. Labiatae. Aromatic tender annuals grown in the herb garden for their value as seasoning and fragrance. Start indoor in North for early crop. Cut leaves just before flowers are in full bloom for drying for winter use.

O. BASILICUM: Basil.

- Leftuce-Leaf, Green.** **OCIM-1L. 20¢**
Large tender leaves; 2 ft; TA. Oz. 45¢; lb. \$2.00.
- Purple Bush.** **OCIM-1P. 20¢**
Oz. 50¢; lb. \$4.00.
- Green Bush.** **OCIM-1G. 20¢**
Oz. 50¢ lb. \$4.00.
- sanctum.** **OCIM-6. 50¢**
Holy Basil. 2 ft; considered by the Hindus as most sacred plant.

ODONTOPHORUS.

- Mariathii.** **ODOT-5. 50¢**

OENOTHERA

Evening Primrose. Onagraceae. A very large and extended group of annuals, biennials, all sun loving, dry land plants easily grown from seed. Common color is yellow; few reds and pinks. (ee-noh-THEE-rah).

- Drummondii.** **OENO-23. 25¢**
Bright yellow fls, 2" across: 1-2 ft; HA.
- flava.** **OENO-25. 30¢**
- fruticosa.** **OENO-26. 20¢**
Showy yellow fls, 2" ac; dry land; 1-3 ft; HP; C-23.
- Youngii.** **OENO-26Y. 25¢**
An extra fine golden yellow variety. ½ Oz. \$1.25.
- Jamesii.** **OENO-29. 30¢**
Yellow fls, 1" ac; 4 attractive petals; 8 ft; (VIII); HP; very sweet in evening; very good; HB.
- Lamarckiana.** **OENO-33. 20¢**
Yellow fls 2" ac; 3 ft; a noble plant for groups near drives or walks; HB.
- longipedicilata.** **OENO-35. 35¢**
- missouriensis.** **OENO-40. 20¢**
Yellow fls, 4-6" ac; 1 ft; HP; C-23.
- odorata.** **OENO-43. 20¢**
Yellow fragrant fls fading to reddish; fragrant; 4 ft; HA.

- Oklahomensis.** Similar to *O. Missouriensis*.
 —**rhombipetala.** Yellow fls, 2" ac; 4 ft; HB.
 —**serrulata.** (Merioliix serrulata) Yellow fls, 2" ac; erect HP or HB; Canada to Texas; (II).....
 —**speciosa rosea.** White turning to rose; erect; fls 3" ac; showy; (Hartmannia s.). ½ Oz. \$1.00.
 —**spinulosa.** (Merioliix) Larger fls than *O. serrulata*; yellow, 3" ac; (III).
 —**tetraptera.** Pink Evening Primrose. (Hartmannia) HA to 20 inches; whitish fls turning to rose; showy; Texas.
 —**triloba.** Stemless; yellow fls, 3" ac; 4 ft; (V); HP.
 —**Mixed Oenothera.**
- OENOA-39.** 25¢
OENOA-51. 20¢
OENOA-58. 40¢
OENOA-59. 25¢
OENOA-57. 40¢
OENOA-70. 35¢
OENOA-74. 30¢
OENOA-X. 20¢
- OLEA.** (OH-lee-ah)
 Oleaceae. Olive. Showy ev. trs and shs; they are hardy in the South.
 —**europaea.** Olive. 25 ft; (IX); 80 seeds to ounce. Oz. 50¢; lb. \$1.25.
OLEA-5. 30¢
- OLDENBERGIA.** (old-den-BERG-ee-uh)
 —**ambucula.** Large decorative lvs; 7 ft; S. Af. shrub.
OLD-1. 40¢
- OLEARIA.** (oh-lee-AY-ree-uh)
 Daisy Tree, Compositae. Contains a number of very fine shrubs and near trees, native of Australia, and closely allied to the Perennial Aster. Long flowering period; the smaller growing species make fine pot-plants.
 —**Allionii.** A rare tree daisy from N. Z; 1-3 ft; white fls; (X).
 —**arborescens.** Shrub; 12 ft; N. Z.
 —**chathamica.** White-purple fls; 5 ft; (IX); N. Z.
 —**Cheesemanii.**
 —**virgata.**
 —**Cunninghamii.** Fls in large branching panicles, ½" ac; sh or tree; 25 ft; N. Z.
 —**surfaracea.** New Zealand Tree Aster.
OLER-3. 40¢
OLER-4. 35¢
OLER-8. 30;
OLER-12. 40¢
OLER-22. 35¢
OLER-25. 25¢
OLER-10. 25¢
- OMPHALODES.** (om-fal-LOH-deez)
 —**linifolia.** (Cynoglossum) White fls, ½" ac; TA.
 —**Luciliae.** Sky-blue fls; 8 ft; HP.
OMPH-5. 25¢
OMPH-6. 50¢
- ONCORA.** (ON-koh-bah)
 —**Routledgei.** African tree; many Camellia-like white flowers; yellow centers; (XI).
 —**spinosa.** Large white flat flowers; 8-10 ft; S. Af; TSh; (IX).
ONCO-5. 25¢
ONCO-6. 50¢
- ONOCLEA.** (on-oh-KLEE-ah)
 Polypodiaceae. Attractive ferns hardy in North; border.
 —**sensibilis.** Sensitive Fern. Sensitive to early frost; moist places; shade or sun; 9-18 inches. Plants: 50¢ each; 3, \$1.40. Prepaid
ONOC-2. 50¢
- ONONIS.** (on-NOH-niss)
 Rest-Harrow. Leguminosae. They are easily grown and are good plants for the border or rockery. Flowers are either solitary or in racemes.
 —**rotundifolia.**
ONON-15. 35¢
- Bright; shrubby; 1½ ft; HP.
 —**spinosa.** Rest-harrow HP; 2 ft; thorny; Herb.
ONON-17. 25¢
- ONOPORDUM.** (on-oh-PORD-um)
 Compositae. Thistle-like plants of Old World; flowers in clustered heads, purple or white disks.
 —**Acanthium.** Scotch Thistle. Silver fol; 9 ft; HP. Oz. 90¢.
ONOP-1. 25¢
- ONYCHUM.**
 Claw-Fern. Polypodiaceae. Small graceful pot ferns for the GH.
 —**auratum.**
ONYC-1. 50¢
- ONOSMA.** (oh-NOZ-mah)
 Boraginaceae. Annuals, biennials and perennials with extremely attractive flowers in white, yellow or purple, in one-sided clusters. They do well in sun or part shade; suitable for the border or rockery; easy.
 —**stellatum tauricum.** Golden yellow fls; wall plant 8"; HP.
 —**tubiflorum.** Fls in racemes; Bulgaria; HP.
ONOS-8. 25¢
ONOS-14. 50¢
- ONYCHIUM.** (Claw-fern)
 —**auratum.**
ONYC-1. 50¢
- OPHIOPOGON.** (off-ee-oh-POH-gon)
 Lily Turf. Liliaceae. Turf forming plants with racemes of small whitish flowers and grass-like leaves, often striped and spotted with white or yellow; useful for turf or border edgings that require no clipping; not extra hardy in the North; sun or shade; (V).
 —**Clarkei.**
 —**intermedius.** 50 seeds to ounce.
OPHI-4. 30¢
OPHI-6. 25¢
- OPULASTER:** see *Physocarpus*.
- OPUNTA.** (op-PUNT-ee-uh)
 —**compressa.** (humifusa) Yellow fls, 2-3" ac; (IV); HP.
 —**Mixed Species.**
OPUN-59. 30¢
OPUN-X. 30¢
- OREOCEREUS.**
 (WS, CG) Red fls; soil should have liberal amounts of limestone; full sun.
 —**Celsianus.** Slow growing; long silky hairs.
 —**giganteus.**
 —**Trollii.** (Pilocereus Trollii). Easy; very woolly.
 —**vulgare.**
OREO-5. 40¢
OREO-14. 40¢
ORIG-7. 25¢
- ORIGANUM.**
 Sow seed in pot or pan; water from below; keep from strong light; space 12"; well known as Sweet Marjoram.
 —**origanum.**
 Sow seed in pots or pans; water from below; keep from strong light; space 12 in.
ORIG-7. 25¢
- ORIXA.**
 Rutaceae. Decid sh; 10 ft; hardy in (IV); Japan.
 —**japonica.**
 Oz. 60¢; lb. \$3.50.
ORIX-1. 50¢
- ORMOSIA.**
 Leguminosae. Necklace Tree. Trop. trs with fls usually in terminal panicles; seeds are very ornamental; (XI).
 —**monosperma.**
ORMO-1. 50¢

Necklace-tree. (dasycarpa) Large timber tree with blue fls in panicles; W. Indies.

ORTHOCARPUS.

Scrophulariaceae. Owl's Clover. Annual and perennials related to Castilleja; native of W. and S. America; grow in border.

—*tenuifolius*. **ORTH-4. 50¢**
Annual to 8"; yellow fls; stems purplish; Ida-B.C.

ORNITHOGALUM. (or-nith-THOG-al-um)
Liliaceae. Bulbous plants with white, yellow or reddish flowers in bracted racemes or corymbs. The tender species are grown as a pot plant in the North.

—*caudatum*. **ORNI-4. 40¢**
White flowers with green centers; 3 ft; GH; (X).

—*Niveum*. **ORNI-10. 40¢**
—*Saundersiae* **ORNI-16. 35¢**

A very nice S. Af. bulbous plant growing to 3-5 ft; white fls 1" ac; hardy to about VI zone; excellent GH plant.

OROBUS vernus: see *Lathyrus vernus*.

OROZYLLON.

Bignoniaceae. Tropical trs; rich soil.

—*indicum*. **O. OZ-1. 50¢**
Ornamental tree to 40 ft; bars courious long flat seed pods, 3 ft long; bell-shaped fls, blue or purplish, 2½" long, 3-4" ac.

ORTHOCARPUS. (orth-oh-KARP-us)
Scrophulariaceae. Owl's Clover. An. and pers. related to Castilleja; native of W. Amer and S. Amer; can be grown in border.

—*tenuifolius*. **ORTH-4. 30¢**
Owl's Clover. Yellow fls; 8"; HA...

OSBECKIA.

—*White*. **OSBE-1. 25¢**
White and pink fls mixed; hardy sh suitable for RG.

OSMANTHUS.

Oleaceae. Shs and trs with fls in clusters or racemes; followed by fruits; grown under glass or outside in mild regions; seeds usually germinate 2nd year.

—*a-lacrus*. **OSMA-4. 50¢**
Similar to fragrans; orange colored fls; very fragrant; China. **Oz. \$1.00.**

—*fragrans*. **OSMA-7. 50¢**
To 30 ft; white fragrant fls in early spring; popular in GH; China. **Oz. 95¢.**

—*ilicifolius*. **OSMA-8. 50¢**
(Aquifolium) To 20 ft; white fragrant fls; June-July; Japan; (VII). **Oz 95¢.**

OSCLARIA.

—*caulecensis*. **OSCU-4. 50¢**
—*deltoides*. **OSCU 8. 50¢**

OSMARONIA.

(os-mar-ROH-nee-uh)
—*ce-as-formis*. **OSMR-1. 50¢**

W. N. Amer decid. sh.; very early to fl; little white scented pendent tassels, loved by the bees; fls on female shs; prefers lime-free soil but not necessary; 10 ft; sow seeds in fall or stratify. (Nuttallia); (IV); Osberry; 75 seeds to ounce.

OSMUNDA.

—*cinnamomea*. **OSMU-1. 50¢**
Cinnamon Fern. Strong grower; not particular as to location; shade or part; 2-4 ft; set top of crown above surface. set top of crown above surface.
Plants: 50¢ each; 3, \$1.40. Prepaid.

—*Claytoniana*.

Interrupted Fern. A very bold and attractive species; shade or part; 1½-3 ft. **OSMU-3. 50¢**
Plants: 50¢ each; 3, \$1.40. Prepaid.

—*regalis*.

Royal Fern. Found in swamps; shade or sunny locations; attractive foliage; 2-4 ft. **OSMU-5. 50¢**
Plants: 60¢ each; 3, \$1.50. Prepaid.

OSTEOSPERMUM.

—*ar-piceus*.

Yellow fls; 2 ft; TA.

—*Echlonis*.

Van Slanden's Daisy. (Dimorphotheca) White flowers rays; 2 ft; sub-sh'b; TP; (IX).

—*hyoseroides*.

Orange-yellow; 2 ft; TA.

OSMUNDA.

Osmundaceae. Attractive Ferns; outdoors; hardy in North.

—*cinnamomea*.

Plants: 50¢ each.

—*claytoniana*.

Plants: 50¢ each.

—*regalis*.

Plants: 60¢ each.

OSTRYA.

Hop-Hornebeam. Betulaceae. Decid. trees; ornamental; sow seed in fall or stratify.

—*carpinifolia*.

—*OSTRA-2. 40¢*

OTHAKE: see *Polypteria Hookeriana*.

OTHONNA.

—*carnea*.

—*OURATEA*.

—*littoralis*.

—*OXALIS*.

—*corniculata purpurea*.

—*OXAL-11. 30¢*

Creeping perennial; light yellow fls; purple leaves.

—*corniculata atropurpurea*.

—*OXAL-11A. 30¢*

(tropaeoloides).

OXYDENDRON.

(ox-id-DEN-drum)

Ericaceae. Ornamental deciduous trees

hardy to (IV); sow seed in peaty soil only

practical way to increase.

—*abietum*.

Sour-Wood. Sorrel-Tree. Ornamental tr;

sow in frame, keep shaded and moist till

germinated; (V).

OXPETALUM.

(ox-PET-al-um)

Asclepiadaceae. (Tweedia) S. Amer. native

plants and sub-shrubs.

—*caeruleum*.

Twining herb; blue flowers; (X).

OXVRIA.

Polygonaceae. Low erect perennials especially

nice for the rockery.

—*digyna*.

1 ft; many flowers; RG; HP.

OXYSPORA.

—*paniculata*.

Pink fls on long racemes; India.

PACHYCLERUS.

Cactaceae. Columnar, tree-like Cacti native

of Mexico.

—*tristis*.

—*Tegeta*.

Tree to 4 ft; greenish white fls in clusters, 2½" long.

OSTE-1. 50¢

OSTE-4. 50¢

OSTE-8. 50¢

OSMU-1. 50¢

OSTRA-2. 40¢

OTHO-3. 50¢

OURA-9. 40¢

(OX-al-las)

OXAL-11A. 30¢

(ox-id-DEN-drum)

OSMR-1. 50¢

(ox-PET-al-um)

OSXP-1. 25¢

OSYR-2. 50¢

OSYN-10. 50¢

PACC-5. 45¢

PACC-15. 50¢

PACHYSTEGIA. (pak-iss-STEG-ee-uh)

Compositae. N. Z. shrubs much like Olea-
ria; mostly zone (X).

—**insignis** v. **minor.** PAC-2M. 30¢
Lovely little sh; gray lvs; large daisy-
like fls; heads 3" ac with white rays and
yellow disks; ideal for rockery.

PACRATIUM.

—**illyricum.** PANC-6. 30¢
Summer flowering bulbs.

PAICUM plicatum: see *Sataria plicata*.

PAEONIA.

(pee-OH-nee-uh) Ranunculaceae. Peony.
The species come true from seed and are in-
teresting subjects where one has room to
grow a Peony collection. The seeds are best
right after ripening; C-24; best to carry seed
bed over for a year; shade during summer
and be sure seed is always covered; keep
moist.

—**Brownii.** PAEO-4. 50¢
Charming dwarf with brownish red flow-
er petals; native of our western mountains.

—**camessadesii.** PAEO-5. 75¢
April flowering; single pink fls amid
green and red leaves; handsome in autumn
with scarlet and black seed boxes; 1 ft;
fresh seed in October or November.

—**Delavayi.** PEON-10. 50¢
Sub-sh to 3 ft; fls dark crimson, 2" ac;
China; 40 seeds to ounce.

—**lactiflora.** PAEO-15. 50¢
(albiflora) Most of the garden form be-
long here. Lb. \$12.00.

—**peregrina.** PAEO-24. 30¢
Bright crimson fls. 4" ac; 2 ft; (arietina).
C.S. Oz. 50¢; lb. \$4.00.

—**suffruticosa.** PAEO-27. 50¢
(Moutan) Tree P. Sh to 6 ft; fls red, rose
and white; to 12" ac; China. Lb. \$14.00.

NOTE: I would like to contact anyone
in a position to supply seed of Peony
species.

PALIURUS. (pal-ee-YEW-rus)

Rhamnaceae. Ornamental shs and trs
hardy to (V) zone; fls small and in cymes.

—**Spina-Christii.** PALI-5. 30¢
Christ Thorn, Jerusalem Thorn; (VI).
c. s. Oz. 50¢; lb. \$1.50.

NOTE: Usually Palm seeds are best when
fresh; if you need them in any quantity it
is always best to book ahead; it will not
be necessary to remit with the order.

PALM SEEDS LISTED

These will be listed in the Dec. Catalog.

PANAX. (PAY-nax)

Ginseng. Grown for its roots; shade;
Amer. grown mainly for their roots; strat-
ify seeds for best germination.

—**quinquefolium.** PANA-3. 30¢
Ginseng. Grown for its roots; shade;
18"; HP. (kwin-kwef-FOH-ee-um)

Seed usually does not germ. till second
spring; try stratifying in moist sand at freez-
ing, 60 days, then 60 days at 60 degrees;
then outside for germinating.
100 seeds \$3.00; 500, \$8.00. 100 strong plants,
\$12.00, prepaid.

PANDANUS. (pan-DAP-nus)

Screw-Pine. Pandanaceae. Tropical trs and
shs; planted outdoors in S or a good tub
plant in the North in its juvenile state; heat
and moisture as for Palms; soak seeds 24 hrs.

—**furcatus.** PAND-6. 50¢

Screw Pine. Beautiful Palm-like tr; med-
ium height; 50 seeds \$1.25.

—**odoratissimus.** PAND-9. 90¢

Grown in the GH or hardy in (IX) zone.
(oh-dor-at-TISS-im-us) 100 seeds \$4.00.

PANDIAEA.

—**Species.** PAN-1. 25¢
Seed from South Rhodesia.

PANDIAKA.

—**Spec.es.** PANK-1. 25¢
Seeds from South Rhodesia.

PANICUM.

(PAN-ik-um)
Gramineae. A large group of an. and
per. grasses; some are ornamental.

—**capillare.** PANI-1. 25¢
Witch Grass. Everlasting; 2 ft; HA.

PANSY

Viola tricolor. *Violaceae.* Pansies are
best grown as a hardy annual or biennial, es-
pecially in the North. They do best in a
rich loamy soil and not exposed to hot, dry
winds; they stand some shade. Seeds can be
started indoors very early in a cool place and
the plants shifted to flats and placed in a
cold frame transplanting them to their out
door beds in early May or they can be started
in July, even as late as August and the plants
established well before fall or wintered over
in a frame. We sell a great amount of
Pansy seed annually and will be pleased to
quote special pound prices to commercial
growers; for best prices orders should be
placed before April for summer delivery; on
these early orders it will not be necessary to
remit at the time.

GIANT FLOWERING SWISS GIANTS:

Probably the most popular of the large
flowering type Pansies; they are very large
flowering, clear colors, both one color and
in two color combinations.

—**Alpinglew.** PANS-1A. 25¢
Rich garnet and ruby-red shades with
dark blotches.

—**Bergwacht.** PANS-1G. 25¢

Velvety violet-blue.

—**Berna.** PANS-1B. 25¢

Dark velvety violet-blue.

—**Blumisa'p.** PANS-1L. 25¢

Soft rose with a beautiful velvety blotch

—**Ca'diral.** PANS-1D. 25¢

Bright red; very showy variety.

—**Cla'et.** PANS-1C. 25¢

An attractive wine-red.

—**Evening Gl'w.** PANS-1E. 25¢

Lovely copper-red; giant flowers.

—**Flame.** PANS-1F. 25¢

Aa attractive wine-red.

—**Gold Spot.** PANS-1N. 25¢

Deep yellow with a pure white spot.

—**Luna.** PANS-1LA. 25¢

A showy rosy lilac or pink-lilac, with
large dark blotch.

—**Mont Blanc.** PANS-1W. 25¢

The best pure white variety.

—**Orange Sun.** PANS-1S. 25¢

A new variety in bright orange.

—**Reingold.** PANS-1R. 25¢

Deep golden yellow with a dark blotch
on lower three petals; showy.

—**Silver B'ide.** PANS-1V. 25¢

A glistening white.

—**Ullewater.** PANS-1U. 25¢

Marine-blue with darker blotch of blue.

—**Yellow M'g'ee.** PANS-1Y. 25¢

An exceptionally fine deep rich yellow.

—Wine Red.

A rich showy wine-red.

—Red Wings.

Blend of Above Varieties.

PANS-1R. 25¢
PANS-1RW. 25¢
PANS-1X. 25¢
PANS-1DX. 25¢
These are dwarf growing plants.**—Sailer's Swiss Giant.****PANS-1SX. 25¢**This is our best blend. It is recommended highly to those growing Pansies for the box trade, where extra color is wanted.
Oz. \$8.00; lb. \$40.00.**—FELIX.****PANS-2F. 25¢**This is a recently introduced strain of "whiskered" Pansies that have been well liked by those already growing them; has yellow faces bordered blue, purple, bronze and red. **Oz. \$6.00; lb. \$43.00.****—Luna.****PANS-1LU. 25¢**

Moonlight. Velvety giant.

—Golden Yellow.**PANS-1GY. 30¢**

Deep golden yellow with dark brown

VARIOUS PANSY STRAINS:

These are all large flowered types.

—Black Monarch.**PANS-2BM. 35¢**Black-blue, the darkest giant blooming; German grown seed. **Oz. \$6.50.****—Cassier's Giants.****PANS-2C. 25¢**All with beautiful large blotches. **Oz. \$4.00; lb. \$30.00.****—Three Blotch.****PANS-2CT. 25¢****—Carnation Gold.****PANS-2N. 25¢**

A giant pure golden yellow; very showy.

—Englemann's Giants.**PANS-2E. 35¢**These are beautiful Pansies; the petals have a lighter tone around the wavy edges; unusual red and bronze shades; compact habit. **Oz. \$4.50; lb. \$35.00.****—Goliath.****PANS-2GL. 30¢****—Jet Black.****PANS-2JB. 30¢**Deep violet-black color; nearest to a real black Pansy. **¼ Oz. \$1.50.****—Westland Giants.****PANS-2W. 30¢**The largest flowering strain of Pansies; beautiful color variation and compact growth; ideal strain for market growers. **Oz. \$6.00; lb. \$40.00.**

blotch; showy.

—Maple Leaf.**PANS-2M. 25¢**

Husky growers; dark green foliage; full color range.

—Masterpiece.**PANS-2P. 30¢**Daintily ruffled and frilled; rich reds and browns. **Oz. \$3.50; lb. \$28.00.****—Orchid Flowered.****PANS-2H. 25¢**Waved and curled petals in full colors. **Oz. \$6.00; lb. \$40.00.****—Tigris.****PANS-2T. 30¢**A new striped and flamed strain, in a very choice mixture; extremely beautiful. **½ Oz. \$2.00.****—Scottish Exhibition.****PANS-2E. 25¢**Mammoth flowers, heavily blotched; petals of circular outline. **Oz. \$5.50.****—Scottish Yellow.****PANS-2CY. 30¢**Deep rich golden yellow; very large fls; 2-2½" ac; plants compact and uniform; 5-6" high. **½ Oz. \$2.00.****—Oregon Giants.****PANS-2G. 25¢**

Bright blend of giant flowered Pansies.

—Velvet Jewel.**PANS-2VJ. 25¢**

Velvety violet blue; showy.

—Triumph of the Giants.**PANS-2TG. 25¢**The original seed saved from selected blooms; frilled giant blooming lively colors; German grown. **Oz. \$5.00.****TRIMARDEAU:** Excellent type for bedding; has a very choice color range; they stand more neglect than the large flowered strains. They are also good for planting farther South where the hot summers eliminate the large strains.**—Mixed Colors.****PANS-9X. 25¢****—Cardinal Red.****PANS-9C. 25¢**

A flashy cardinal-red variety.

HIEMALIS: Ice Pansy. They flower very early, even in the snow and while the flowers are smaller, they are distinct and showy for the time of year they flower; they should be planted so as to be protected from the sun.**—This type is 8-14 days earlier than the regular Hiemalis; special blend of colors.****PANS-3PX. 35¢**

This type is 8-14 days earlier than the regular Hiemalis; special blend of colors.

—Blue Boy.**PANS-3B. 25¢**

Showy silver Blue.

—Claret.**PANS-3C. 25¢**

Beautiful wine-red.

—Celestial Queen.**PANS-3Q. 25¢**

Brilliant light blue.

—Ice King.**PANS-3K. 30¢**

Snow white with black eye; showy.

—March Beauty.**PANS-3M. 35¢**

Dark velvety purple.

—North Pole.**PANS-3N. 30¢**

Pure icy white.

—Winter Sun.**PANS-3S. 25¢**

Golden yellow with showy dark blotch.

—Zurich Sea.**PANS-3Z. 25¢**

Very showy light blue.

—Woden.**PANS-3W. 25¢**

Black; king of the spring garden.

—Hiemalis Blend.**PANS-3X. 25¢****—ALL PANSY BLEND.****PANS-X. 25¢**Contains all the Pansies listed above plus many other kinds. **Oz. \$2.00; lb. \$20.00.****PAPAVER:** see under **POPPY.****PARKINSONIA.** (pahr-kin-SOH-nee-ah)

Leguminosae. Tropical and sub-tropical shrubs and trees with whitish or yellow racemes and flattened leathery pods; none as hardy in the North but some are native up to Texas and Arizona.

—aculata.**PA*K-1. 30¢**Jerusalem Thorn. Ratama. Tr to 30 ft; good hedge plant; (IX); **Oz. \$1.25.****PARMENTIERA.** (pahr-ment-YEER-uh)**PARM-3. 30¢****—cere fera.**

Candle Tree. White flowers 3" long; followed by fruits to 4 ft. long, resembling candles; (IX). (see-RIF-er-ah).

PARNASSIA.

(par-NASS-ee-uh)

—nubicola.**PA N-1. 25¢**

Small grass-like herbs; India; damp spots (new-B*YK-ol-ah).

—pulstris.**PARN-15. 25¢**

Flowers 1" across; (IV); HP

—Mixed.**PARN-X. 20¢**

Several species mixed.

PARODIA.

Cactaceae. Plants small; yellow to red fls; S. Amer.

—Maassii v. auricolor.**PARO-10A. 40¢****PARONYCHIA.**

(par-oh-NIK-ee-uh)

Whitlow-wort, Nail-wort. Illeceosceae. Small herbaceous tufted annuals and perenn-

ials with small clustered flowers. They are especially nice in the rockery and easy to grow.

—**argentea.** **PARON-1. 30¢**
Prostrate; white flowers in dense clusters amongst the lvs; HHP; (ar-JEN-tee-ah).
—**serpyllifolia.** **PA-ON-15. 50¢**
(capitata) Silvery white fls in dense terminal; sod forming; 6"; creeping root-stalks.

PARROTIA. (par-ROH-tee-uh)
—**persica.** **PAA-1-2. 25¢**

Small tree, slow grower; perfectly hardy; very good; autumn coloring; (PER-sik-ah).

PARSONSIA: see *Cuphea*.

PARTHENOCISSUS. (parth-en-oh-SISS-us)

—**guineifolia.** **PAA-T-5. 25¢**
Virginia Creeper. Hardy vine to 10 ft.
—**tricuspidata v. Veitchii.** **PART-7. 25¢**
Boston Ivy. Young leaves purple; vine grown mainly on stone or brick walls; to 60 ft; hardy; (IV); (try-kusp-id-DAY-tah).

PASSIFLORA

Passion Flower. Passifloraceae. Mostly tendril climbing plants, not hardy in the North but many are grown indoors where they make good house plants. In pots use some leaf mould in a fibrous loam and give liquid manure when in growth; (patt-ef-FLOH-ruh).

—**alata.** **PASS-1. 30¢**
Frag. white fls, red inside, 5" ac; yellow fr; edible; Trop Amer.

—**antioquiensis.** **PASS-4. 40¢**
(Tacsonia Van-Volxemii). Bright red fls to 4" across; (X); probably the most ornamental of garden types. 100 seeds \$2.25.

—**Byronoides.** **PASS-7. 40¢**
Low growing herbaceous cl, bearing dainty blue and white fls, ¾" ac, followed by small black fruits.

—**cinnabarina.** **PASS-9. 40¢**
One of the few native Aust. Passion climber; evergreen; n't an over-vigorous cl, bearing red star-shaped fls, 2" ac with small yellow crown followed by green aromatic fruits; poor soils; (X).

—**caerulea.** **PASS-8. 40¢**
Pale pink fls; fruits yellow; (X); or GH. (see-^oEW-lee-ah); Oz. 75¢; lb. \$6.00.

—**edulis.** **PASS-12. 40¢**
Purple Granadilla. White fls, 2" ac; fruits purple; edible; (ED-yew-liss).

—**Foetida.** **PASS-14. 40¢**
Tall grower but not rank; hairy lvs; can stand only light frost; pale lavender; pretty and scented; fr edible; fls 1st yr from seed; germinates best with heat.

—**incarnata.** **PASS-17. 25¢**
White flowers shading to pink with rings around blossom; Va-Texas.

—**mollissima.** **PASS-29. 40¢**
Rose fls, 3" across; yellow fruits; (X). (mol-LISS-im-ah) (Tacsonia).

—**perfecia.** **PASS-30. 35¢**
Giant Mexican Passion Fruit. Large sweet sub-acid purple fruit.

—**quadricaulis.** **PASS-32. 40¢**
Giant Granadilla. White fls, 3" ac; (X).

—**subpeltata.** **PASS-39. 40¢**
(P. alba) Pure white fls, 2" ac; Mexico.

—**tomentosa.** **PASS-41. 40¢**

—**tomentosa speciosa.** **PASS-44S. 25¢**
Tall grower but not a wild one; fls 3" across, a beautiful deep pink shade; petals surround a purple collar of rather coarse hairs; fls the year around; is used in floral work; N. Z.

PAULOWNIA. (pol-LOH-nee-uh)

Scrophulariaceae. Ornamental trees not hardy in North; sow seed thinly on surface of a loamy soil, during late Feb; guard against damping off.

—**tomentosa.** **PAUL-4. 30¢**
A pretty ornamental tree to 40 ft; pale violet fls, spotted darker inside; fragrant; (VI); seedlings damp off easily; give air circulation, especially at night; best sow in spring; (imperialis). Oz. 70¢; lb. \$6.00.

PAW PAW: see *Asimina triloba*.

PEACH: see *Prunus perica*.

PEDICULARIS. (ped-ik-yew-LAY-riss)

Wood-Botony, Lousewort. Scrophulariaceae. Annuals and perennials with 2-lipped flowers in spiked clusters in whitish and reddish colors and used in the rockery and border with good effect.

—**canadensis.** **PLANTS ONLY**
Wood Betony. Lvs fern-like, clustered, 6-12"; fls red and yellow in short dense spikes; shade or part. **Plants: 75¢; 3-\$1.60.**
—**densiflora.** **PEDI-4. 25¢**
Very brilliant scarlet fls; woodland; 1 ft; Calif; HP.

—**mega-antha.** **PEDI-9. 40¢**
Deep purple-red fls.

—**groenlandica.** **PEDI-5. 25¢**
Red and purple flowers; 18"; hardy; HP.

—**siphonantha.** **PEDI-12. 25¢**
Pink fls; beautiful leaves; rockery. HP.

—**Mixed.** **PEDI-X. 25¢**

PELAGONIMUM. (per-ahr-GON-nee-um)

Stork's Bill. Geraniaceae. The Geranium of the greenhouse, all tender perennials.

Many pretty forms can be grown from seed.

—**graveolens.** **PELA-18. 40¢**
Rose Geranium. Rose flowers; 2-3 ft; fragrant; (grav-VEE-ol-enz).

—**lateripes.** **PELA-23. 50¢**
(P. hederacifolium). Ivy Leaf Geranium. Similar to P. peltatum but ivy leaved.

—**odoratissimum.** **PELA-28. 50¢**
Apple or Nutmeg Geranium. White fls in 5-10 f'ed umbels; (oh-dor-at-TISS-im-um).

—**zonale, Mixed.** **PELA-35. 30¢**
A choice selection made from a large European collection; (zoh-NAY-lah). Oz. \$8.00.

PELLAEA. (pet-LEE-uh)

Cliff Brake. Polypodiaceae. Small rock ferns; nice for GH or RG; does well in limestone soil.

—**atropurpurea.** **PELL-3. 50¢**
Cliff Brake. Fronds clustered, leathery; blue-green; limestone cliffs; sun or part shade; 6-18 inches.

Plants: 65¢ each; 3, \$1.60. Prepaid

—**rotundifolia.** **PELL-1-22. 75¢**
(Allosurus rot.) 1 ft; N. Z.; GH or warm section.

PELTOPHORUM. (pel-TOH-flo-um)

(Baryxylum) Leguminosae. Tropical ornamental trees with showy yellow flowers in terminal panicles and flattened winged pods.

—**aficanum.** **PELT-4. 40¢**
Rhodesian Black Wattle. Very ornamental tree; bright yellow flowers and feathery foliage; sweet scented; thornless; fls in terminal clusters; (X).

—**inermis.** **PELT-5. 40¢**
(ferrugineum). Showy tree; (X); (in-ERM-ah); C-58.

—**Mixed** **PELT-X. 30¢**

PENNISETUM.

(pen-nis-SEET-um)

Gramineae. Ornamental Grass. Annuals and perennial grasses for the border or specimen planting; useful, also, as dried grasses; start indoors early for good sized plants; TA.

—caudatus.

PENN-2. 25¢

—latifolium.

PENN-4. 30¢

Grows to 4 ft; leaves 1 ft. long; spikes 4" long, nodding; Peru; HHP.

—Ruppelii.

PENN-9. 25¢

Fountain Grass. Solitary spikes, purple, red and rose; 4 ft; TP. ¼ Oz. 75¢.

—villosum.

PENN-11. 25¢

(longistylum) Pretty; 2 ft; spikes plumelike; purplish; TP. ¼ Oz. 75¢.

—Mixed.

PENN-X. 25¢

PENSTEMONS

Attractive genus of perennials, nearly all of which are native of N. America, one comes from Japan; bright tubular flowers on terminal racemes or panicles. They are not hard to grow; best in well drained soil; C-9 or 23.

—acuminatus.

PENS-2. 40¢

—aggregatus.

PENS-4. 30¢

Showy large deep blue fls; best of the clusterheads; 1 ft; HP.

—albertinus.

PENS-5. 25¢

Bright blue spikes; rockery; lvs in basal rosettes; 8"; HP.

—arizonicus v. Heller.

PENS-14H. 35¢

Purple fls; 8"; glabrous; (V); HP.

—auriberbis.

PENS-15. 25¢

Neat rockery plant; showy, pale lilac fls; golden beard; 4-8"; HP.

—barbatus.

PENS-20. 25¢

Red fls 1" long; 6 ft; Utah; HP. Oz. \$1.50.

—Coral-red.

PENS-20R. 40¢

A pure color variety; showy. ½ Oz. \$1.25.

—Flat Head Lakes.

PENS-20F. 25¢

Clear coral red; blooms all summer; nice; HP.

—Hybrids.

PENS-20H. 25¢

A French grow strain.

—Barretteae.

PENS-21. 25¢

Shrubby; rose-purple fls; 1 ft; HSH.

—bicolor.

PENS-24. 25¢

Yellow form; large fls; 3 ft; HP.

—roseus.

PENS-24R. 25¢

Rare Arizona form; rose-purple fls; 1 ft; H. P.

—Bridgesii.

PENS-23. 35¢

Sub-shrub; intense scarlet fls; RG; 1 ft; H. P.

—Canescens.

PENS-28. 30¢

Pale purple fls; for wild garden; 3 ft; HP.

—Cardwellii.

PENS-29. 25¢

Fine sub-shrub; purple fls; broad ev. lvs; 1 ft; HP.

—caudatus.

PENS-31. 30¢

Glaucous blue lvs; lavender or blue fls; 1 ft; HP.

—alba.

PENS-31A. 30¢

A pretty white form.

—cent-a-thifolius.

PENS-36. 35¢

Scarlet fls, 1" long; Calif; 3 ft.

—Chutei.

PENS-33. 30¢

Bluish lvs; rose fls touched orange; 3 ft; HP.

—Althiflorus.

PENS-33A. 30¢

Purple fls, 2" long; 2 ft; Mo-Tex; HP. Oz. \$1.30.

—conratifolius.

PENS-34C. 30¢

Very pretty; large bell-shaped fls; 2 ft; HP.

—calvadense.

PENS-32. 30¢

Choice and neat growing; bright silver lvs; blue fls; 3 ft; HP.

—comarhanus.

PENS-35. 25¢

Showy deep blue; lovely; 18". HP.

—congestus.

PENS-37. 25¢

Dense basal rosettes of bluish lvs; blue spikes; 2 ft; HP.

—cyananthus.

PENS-44. 30¢

Intense blue fls in clusters; 2 ft; HP.

—Davidsonii.

PENS-47. 30¢

Matted alpine; lilac-purple fls; Wash; HP. hardy; 1 ft; good HP.

—diffusus.

PENS-51. 30¢

Bushy; fls ¾" long; blue or purple; B.C. (IV); HP.

—Blue Bedder.

PENS-51B. 30¢

A rich blue flowered form

—Digitalis.

PENS-53. 25¢

White or pinkish fls; strong grower; 5 ft; HP. H.

—dustus.

PENS-50. 25¢

Neat attractive RG plant; mats 1 ft. ac; 8"; HP.

—Eatonii ssp. exsertus.

PENS-57S. 35¢

Showy; large red spikes; 4 ft; HP.

—lancefolius.

PENS-57L. 30¢

A Nevada form with narrow lvs; 4 ft.

—undodus.

PENS-57N. 25¢

Downy stems; large basal lvs; red fls; 2-3 ft; HP.

—erianthera ssp. saliens.

PENS-59. 25¢

Flat rosettes; large lavender fls; RG; 1 ft; HP.

—flavescens.

PENS-63. 25¢

Neat alpine; small creamy yellow fls; HP.

—floridus.

PENS-64. 25¢

Showy fls in spikes of rose-pink; 4 ft; HP.

—fruticosus.

PENS-65. 25¢

Blue fls in June; shrubby; 2 ft; HP.

—alba.

PENS-65A. 25¢

Good shrubby evergreen; white fls.

—Gairdneri.

PENS-66. 30¢

Small pure blue fls; plant tufted; 10"; HP.

—Garretii.

PENS-67. 25¢

Large deep blue fl-spikes; RG; 1 ft; HP.

—gentianoides: see P. Hariwegii. Good HP.

—glaber.

PENS-68. 25¢

Procumbent; fine purple-blue; is very hardy; 1 ft; HP.

—gloxinioides Sensation

PENS-71S. 25¢

Showy; many colors; cuts; 2 ft; HP.

—gracilis.

PENS-75. 30¢

Lilac or whitish fls; 15"; (II); HP.

—grandiflorus.

PENS-88. 25¢

Showy large lavender-blue fls; 6 ft; HP.

—x Murravanus.

PENS-76M. 30¢

A nice cross; easy; HP.

—albus.

PENS-76A. 25¢

Come 50% true; white form; 6 ft; HP.

—Lave-rd Form.

PENS-76L. 25¢

Scarlet fls. 2" long; giant flowered.

—heterophyllus.

PENS-84. 25¢

Showy Calif. species; rose-violet to an intense blue; 3-5 ft; HHP.

—his-sutus

PENS-85. 25¢

Pink to purple; improved form; 2 ft; HP.

—Gladstone Varieties.

PENS-85G. 75¢

Mrs. Norman Henry's strain; beautiful.

—Purdy.

PENS-85P. 40¢

A beautiful blue selection by Carl Purdy.

—Hybrid. Southgate Gem.

PENS-86G. 25¢

—Pink Form.

PENS-86P. 75¢

—Jamesii.

PENS-92. 25¢

Neat alpine; clumps; soft blue-lavender fls; 1 ft; HP.

—laevigatus.

PENS-95. 25¢

Pale lavender fls; 3 ft; HP.

—leionchilus.

PENS-96. 30¢

A rare form; pure deep blue; easy; 3 ft; HP.

—lentus.

PENS-97. 30¢

Pretty; spikes of rare blue shade; alpine.

—althiflorus.

PENS-97A. 30¢

Shrub; bright yellow fls; 4 ft; HP.

—Murravanus.

PENS-118. 35¢

Deep scarlet fls. 1" long; 3 ft; glabrous and glaucous; Texas. Oz. \$1.50.

- neomexicanus**. **PENS-111. 25¢**
Long spikes of bell-shaped blue fls; 2 ft; HHP.
- viridus**. **PENS-113. 25¢**
Blue fls; 1 ft; Montana; HP.
- polyphyllus**. **PENS-113P. 25¢**
Blue funnel-form fls; Mont; HP.
- Olgae**. **PENS-114. 30¢**
- ovatus**. **PENS-119. 30¢**
Pretty blue fls; fine for cutting; 4 ft; (IV); HP.
- pachyphyllus**. **PENS-128. 35¢**
More flaring fls than *P. congestus*; 1 ft; HP.
- Palmeri**. **PENS-120. 25¢**
Very showy; very large white, flushed pink fls; 3 ft; HHP.
- White Form**. **PENS-120W. 25¢**
- eglandulosus**. **PENS-120E. 30¢**
Broader type and thinner stems; smaller capsules.
- pigmaea rosea**. **PENS-126 25¢**
Rosy lilac fls good cut; grows well in the East; F. E. Blunck strain.
- platyphyllus**. **PENS-128. 25¢**
Sub-shrub; showy blue spikes; RG; 1 ft; HP.
- procerus**. **PENS-129. 25¢**
Native Montana species; blue fls; June-July; 1 ft; HP.
- pseudospectabilis ssp. connatifolus**. **PENS-131C. 30¢**
Showy; mixed colors; 1 ft; HP.
- Rattanii minor**. **PENS-134M. 25¢**
Lavender fls; smaller than species; 18"; HP.
- rubicundus**. **PENS-137. 30¢**
Attractive; lovely rose fls; stands some shade; 4 ft; HP.
- rupicola**. **PENS-138. 40¢**
Choice species for scree; red fls; decumbent shrub; 4 ft; HP.
- Scouleri**. **PENS-142. 25¢**
Shrub; white fls; 18"; HP.
- ecundiflorus**. **PENS-143. 25¢**
Showy; large lavender fls; 2 ft; HP.
- sepalus**. **PENS-144 30¢**
Sub-shrub; large inflated violet fls; very showy; 3 ft; HP.
- serulatus**. **PENS-146. 35¢**
- Six Hills Variety**. **PENS-145. 25¢**
Small shrubby plant; rosy purple fls; 4 ft; HP.
- speciosus**. **PENS-147 25¢**
Very showy large blue fls; very good; 2 ft; HP.
- strictus**. **PENS-149. 25¢**
Very showy; densely packed deep blue spikes; 79"; HP.
- subulaber**. **PENS-150. 25¢**
Showy deep blue fls; long spikes; 18"; HP.
- triflorus**. **PENS-159. 30¢**
Bright rose-purple fls; bell-shaped; very nice; HP.
- trichotomus**. **PENS-160 25¢**
- diphyllus**. **PENS-160D. 40¢**
Rich blue-purple; attractive; RG; 1 ft; HP.
- triflorus**. **PENS-161. 30¢**
White or tinged purple fls; (VI); 3 ft; HP.
- umbellatus**. **PENS-162. 25¢**
Lavender; border type; 2 ft; (VII); HP.
- variegatus**. **PENS-166. 30¢**
Light purple, 1" long; (III); HP.
- Watscotti**. **PENS-170. 25¢**
Light to deep blue fls, in profusion; 18"; HP.
- Whippleanus**. **PENS-171. 25¢**
Leaves in rosettes; purple to lavender fls; 18"; HP.
- Worcesteri**. **PENS-174. 25¢**
Clear blue fls in open panicles; 4 ft; HP.
- Penstemon Blend**. **PENS-X. 25¢**
Contains nearly all the species in the genus; not offered elsewhere. **Oz. 75¢.**
- PEONY:** see *Paeonia*.
- PEPPER Ornamental:** *Capsicum frutescens*.
These make showy pot plants with their attractive colored fruits; some are excellent Christmas plants.
- PEPPER GRASS:** see *Lepidium*.
- PERILLA.** (per-RILL-uh)
Labiatae. Half hardy annuals valued for their highly colored foliage and used in bedding for sub-tropical effect; thrives in light sandy soil; start seed indoors in March in a gentle heat; C-8.
- frutescens**. **PERI-1. 25¢**
Foliage in many colors much like in *Colinus*; 4 ft; germs. 8 days at 65-70 F; TA.
- atropurpureus**. **PERI-1A. 25¢**
Dark purple, lacinated foliage.
- crispa compacta**. **PERI-1C. 30¢**
Bronzy foliage; compact plants. $\frac{1}{4}$ Oz. 50¢.
- lacinata**. **PERI-1L. 25¢**
Pretty lacinated foliage.
- Mixed**. **PERI-1X. 20¢**
- PERIPILOCA.**
Silk Vine. Asclepiadaceae. Woody vines with wheel-shaped fls in terminal or axillary clusters; well drained soil; sunny spots; protect in N; (V).
- gracila**. **PERP-3. 30¢**
Greenish fls with brownish purple inside, 1" ac; 40 ft; (V). **Oz. 90¢; lb. \$6.00.**
- PERSEA.** (PURR-see-uh)
Small ornamental trees grown in warm sections of the country.
- americana**. **PERS-1. 30¢**
Avocado. Tree; (IX).
- Boronia**. **PERS-3. 30¢**
Red Bay. Hardy to (VII).
- PERSOONIA.**
Proteaceae. Aust. and N. Z. small shs and trs; fruits a drupe; suitable for South.
- rigida**. **PEAO-10. 35¢**
Hairy Geerung. Australia.
- PETROCALLIS.** (pet-roh-KAL-liss)
Cruciferae. Annuals and perennials; a few sub-shrubs of the Medit. region, much like *Scabiosa*.
- pyre-aica**. **PETO-3. 40¢**
Purplish pink composite-like heads, 1" across; 4 inches; HHP.
- PETUNIAS**
There is hardly any other flower that will give as much bloom, with as little care, as will the *Petunia*; in hot summers their bloom is continuous. The chief pit-fall the amateur runs up against in growing *Petunias* is in the seed sowing; almost invariably they bury the tiny seeds too deeply. First the soil should be a good loamy texture with leaf mould mixture for the top; fern-pots make ideal seed pans as they can be watered by setting them in a little water; do not soak. In sowing the seed be careful not to sow too thickly; always press the seed into the soil then a fine sprinkling of sand or milled sphagnum moss, not too much; cover pot

with a pane of glass and be sure to wipe it off each morning to prevent the moisture on the under side from dripping on the seeds; about a 60 degree Far. temperature at night will do; LW; C-18.

DWARF GIANTS OF CALIFORNIA:

Huge flowers on dwarf sturdy plants, especially bred for pot plants.

- Dark Shades. PET-IDS.. 50¢
- Light Shades. PET-ILS. 50¢
- Dark and Light Shades. PET-IDL. 50¢
- 1/64 Oz. \$3.50. Trade Packet: \$1.00.

GIANTS OF CALIFORNIA:

The largest flowers in the Petunias; heavily ruffled with a heavy, robust growth; excellent for both florist and garden use.

NEW HORIZON.

PET-2H. 50¢

ical plant growers. 1/4 Oz. \$8.00.

A fine new blend of Tall California Giants, noteworthy for the new range of colors not seen before in this class, coupled with almost complete uniformity of flower size. New colors include strawberry, delicate Dresden pink, orchid lavender, old rose, copper rose, white; many harmonizing throats veined and flush with purple, brown and wreen shades.

NEW HORIZON is produced from family lines taken from the breeding ground both F2 and open-pollinated types are represented, to combine the best and rarest colors provided by both techniques. Flowers are of extra large size—up to six and seven inches across, and are slightly ruffled. Plant growth is strong and vigorous. The first flowers are borne on a central upright stem, with base branches following to form a mound-like plant. NEW HORIZON is our suggestion for the best Tall Giant of California strain to the most crit-

- Paramont Giants. PET-2P. 50¢
- Free flowering; light and dark shades.
- 1/8 Oz. \$3.90.



GIANTS OF CALIFORNIA

- Prince of Wurtemberg. PET-2W. 50¢
- Dark purple with dark throat; very good.
- Princess of Wurtemberg. PET-2Z. 50¢
- Light rose with dark throat.
- Salmon Queen. PET-2SQ. 50¢
- superbissima nana. PET-2SB. 50¢
- Dwarf giant flowering; extra good for pot culture. 1/8 Oz. \$7.50.
- Special Blend. PET-2X. 50¢
- Very choice; contains above also. 1/16 Oz. \$5.00.

GRANDIFLORA Large Single Fringed:

Strong, free flowering; 12-16" plants; some varieties spreading, others compact;

many plain edged flowers of heavy substance and velvety texture; prime favorites of the florist trade.

- Fluffy Ruffles. PET-3F. 50¢
- Mixture of bicolors; many not offered otherwise..
- Theodosia. PET-3T. 50¢
- Fringed; rose, gold throat; very nice.
- Blend. PET-3X. 50¢
- Made up of the very best varieties.

GRANDIFLORA Single Plain Edged:

These are like the above but all plain edged; especially good for boxes and bedding.

SYMPHONY F2 HYBRIDS

Symphony contains a color range heretofore unknown in Petunias. Range from white thru light pink, pink, rose, salmon, cerise, crimson, carmine, light and dark blue to scarlet; many of the self colors have golden throats, adding greatly to their charm; also a good percentage of bicolors in blue and white, rose and white, copper and white and crimson and white shades. Size of flower varies slightly but 3-4 inches across with fringed and ruffled edges is the predominating type. The plants are hidden in a mass of blossoms.

- Symphony F2 Hybrids. PET-4S. 75¢
- 1/32 Oz. \$4.00.

- Bonanza. PET-4GZ. 50¢
- Burgundy. PET-4B. 50¢
- All-American selection; pretty red with a white throat.
- Dazzler. PET-4D. 50¢
- A new brilliant scarlet; compact growth.
- Dwarf Elk's Pride. PET-4E. 50¢
- Deep velvety purple; compact.
- Special Blend. PET-4X. 50¢
- A choice blend of varieties. 1/16 Oz. \$4.50.

HYBRIDA:

Strong growing and free flowering; 20-24" plants bearing medium sized plain edged single flowers; excellent for boxes or beds.

- Flaming Velvet. PET-5F. 25¢
- A brilliant velvety scarlet; reselected.
- Howard's Star. PET-5H. 25¢
- Reddish purple white star; popular.
- Padiance. PET-5R. 25¢
- Rich cerise-rose, salmon undertone, yellow throat; good.
- Rose King Improved. PET-5K. 25¢
- Rich rose with white throat; much used for boxes.
- Rose Queen. PET-5Z. 25¢
- Tona Rose. PET-5T. 25¢
- A rich rose and gold tone.
- Violaacea. PET-5V. 25¢
- Deep violet; best of its color.
- White King. PET-5W. 25¢
- The best pure white.
- fimbriata Triumph, Double Mixed. PET-5YX. 50¢

- Special Blend. PET-5X. 25¢
- A careful blend of varieties; not a mixture of field grown varieties. 1/16 Oz. \$1.00.

HYBRIDA NANA COMPACTA:

Much the same type of flower as above but the plants are compact growing, 12-16" with medium sized plain edge flowers; they are especially good for bedding or borders.

- Bright Eyes. PET-6B. 25¢
- A soft pink with a showy white throat.
- Erfordia. PET-6E. 25¢

- Brilliant rose with white throat.
—FI E CHIEF. PET-6F. 25¢
 Gold Medal Winner; brilliant scarlet-red.
—Gl-w. PET-6G. 25¢
 Lazzling carmine-red.
—Lavender Queen. PET-6L. 25¢
 A clear lavender without any markings.
—Pop Corn. PET-6PC. 35¢
 A dwarf version, identical in flower form and size of bloom with Snowstorm. It is earlier blooming and its habit is exceedingly dwarf and compact; 8". 1/32 Oz. \$5.00.
—Miniature Rose Gem. PET-6R. 25¢
 Pure rose on a small compact plant.
—Rose of Heaven. PET-6H. 25¢
 Brilliant rose; dwarf; extra strain.

COLORAMA F2 HYBRID.

The color range is pure white, light and medium salmon, scarlet-salmon, warm scarlet, fiery red, light, medium and rose-pink; many with golden and topaz throats; also white bicolor in crimson, rose, blue and dark blue and many starred varieties. The hybrid vigor gives twice as many flowers; plants completely uniform. There is no other Petunia like it. 1/8 Oz. \$5.00.

- Colorama F2 Hybrid.** PET-6C. 75¢

- Rosy Morn.** PET-6M. 25¢
 Rose with white throat; select strain.
—Salmon Supreme. PET-6SS. 25¢
 Bright showy salmon color in compact dwarf plants. 1/8 Oz. \$1.50.
—Snow Queen. PET-6W. 30¢
 The best pure white.
—Topaz Queen. PET-6T. 25¢
 Glowing carmine-rose overlaid with an orange-scarlet sheen.
—Twinkles. PET-6N. 25¢
 Bright rose with white star; showy.
—Velvety Crimson. PET-6V. 25¢
 A rich velvety crimson.
—Fancy Blotched & Striped. PET-6BS. 25¢
—Red. PET-6X. 25¢

This comes in an extremely wide color range, incorporating much hybrid vigor as planting is made from properly segregating F1's. F2's and those suitable open pollinated types that match and add materially to the color range. Without hesitation, this blend can claim the widest color range of any Petunia mixture. 1/16 Oz. \$1.00.

Any above: 1/16 Oz. \$1.00.

BATONNY or PENDULA:

Strong growing 18-24" plants with a spreading or trailing habit; bearing many plain edged flowers larger than the ordinary bedding types. Excellent for both bedding and window or porch boxes.

- Bergundy.** PET-7B. 25¢
 Pretty purple-carmine with white throat.
—Black Prince. PET-7P. 25¢
 A deep velvety red.
—Crimson. PET-7C. 25¢
—Elk's Pride. PET-7E. 25¢
 The darkest velvety purple.
—Rose. PET-7Z. 25¢
—White. PET-7W. 25¢
—Special Blend. PET-7X. 25¢
 Contains a blend of many choice varieties. Price: Any of Above, 1/8 Oz. \$1.00.

MINATURE PETUNIAS: These are the real dwarf kinds with small flowers and ideal for edging and other places where a real plant is wanted.

- BABY WHITE.** PET-9W. 50¢
 NEW. A very showy new variety introduced this year; very small compact

5" high, plants 6" ac. 1/32 Oz. \$1.50.

DOUBLE and RUFFLED:

These are mainly grows for pot culture or for boxes that can be protected from the storms; the pale green foliage plants are the best, when picking out this type of Petunia.

- Double Flowered Mixed.** PET-8DX. 50¢
 1/8 Oz. \$15.00.
—Giant Fimbriata, Mixed. PET-8F. 50¢
 Petals heavily fringed and fimbriated; looks almost double. 1/8 Oz. \$15.00.

PEUMUS.

Monimiaceae. Evergreen deciduous trees from Chile.

- Boldus.** PEUM-1. 40¢
 Boldo. Valuable tree for South; (IX).

PHACELIA

Hydrophyllaceae. Hardy annuals and perennials with flowers in lavender to blue, in clusters or racemes; very pretty in mass plantings. Start early indoors or plant later in the open; the perennials can be started as late as August; DW; C-1.

- campanularia.** PHAC-2. 25¢
 Brilliant deep blue fls; dry soil; sun; 9"; RG; HHA. Oz. \$1.00.
—leucophylla. PHAC-7. 25¢
 Spikes of white or pink fls; showy in RG; 1 ft; HP; (lew-koh-FILL-ah).
—tanacetifolia. PHAC-15. 25¢
 Bee Food; blue fls, especially grown for bees; sow in April; HA. Oz. 40¢; lb. \$2.50. This germinates best in the dark.
—viscidula. PHAC-16. 30¢
 (Eutoca) Deep blue; 15"; HA; excellent bee-food plant. Oz. 90¢; lb. \$7.00.
—Muggrave Strain. PHAC-18M. 35¢
 Gentian-blue Phacelia-like fls; free flowering and excellent for bees; 15"; HA.
—Whitlava. PHAC-17. 25¢
 California Bluebells. Blue, bell-shaped fls; 18"; HA.
—Phacelia Blend. PHAC-X. 20¢

PHAEOMERIA.

- magnifica.** PHAE-5. 40¢
 Collected in Brazil.

PHASEOLUS.

Leguminosae. Bean. Tender twining annuals mainly grown for their edible pods. (fas-SEE-ol-us)

- Caracalla.** PHAS-3. 40¢
 Snail Flower, Corkscrew Fl. Twining; 20 inches; light purple fls; fragrant; (X).
—Mungo. PHAS-15. 30¢
 Black Gram. Yellow fls; 3 ft; TA.

PHELLODENDRON.

(fel-lon-DEN-dron)
 Cork Tree. Rutaceae. An East Asian tree hardy in the North; flowers greenish, small, in terminal panicles or corymbs, followed by berry-like fruits ornamental.

- amurense.** PHEL-1. 40¢
 Tree native of China; to 50 ft. Oz. 80¢.

PHILADELPHUS.

(fil-ad-DELf-us)
—grandiflorus. PHIL-20. 25¢
 Mock Orange. Hardy shrub with Orange like fls; (IV); seed saved from named varieties; fall sown seed germinates freely in the spring. C. s. Oz. 60¢; lb. \$4.00.

List a few 2nd choice items when ordering; it often helps to complete an order.
 A fully revised Catalog will be ready

PHILOGACANTHUS. (flo-gah-KAN-thus)
Acanthaceae. Somewhat shrubby plants with spikes of attractive flowers; related to Acanthus. Best grown in the greenhouse in a warm damp atmosphere and in rich soil.
—**tryrsiflorus.** **PHLK-1.** 25¢
Dark orange-red fls on long spikes. **Oz.** \$1.50.

PHILLYREA. (fil-LIHR-ee-uh)
Bold foliage evergreen shrubs with small white tubular fls, delicate scent; slow in growth but easily grown; excellent back-ground shrubs.

—**angustifolia.** **PHLL-1.** 30¢
Ornamental; 15 ft; (VII). c. s. **Oz.** 50¢;
lb. \$3.50.

PHLOMIS. (FLOH-miss)
Labiate. Perennial plants suitable for the border and wild garden. They are rather course in growth and should be in the back ground planting.

—**Purple.** **PHLO-1.** 25¢
Showy, easy; vivid purple fls; whorl above whorl; 4 ft; HP.

—**fruticosa.** **PHLO-5.** 25¢
Jerusalem Sage. Yellow fls in whorls; 4 ft; (VII); HSH; (frew-tik-KOH-sah). ideal for dry, sun-baked soil; yellow fls in dense terminal woolly heads in June; low growing evergreen; 4 ft; HSH.

—**samia.** **PHLO-10.** 35¢
Purple fls in 10-15 flowered whorles; 3 ft; HP; Greece.

—**tuberosa.** **PHLO-13.** 25¢
Purple fls; 6 ft; HP.

—**viscosa.** **PHLO-19.** 35¢
(Russelliana) Shrubby; yellow fls.

—**Mixed.** **PHLO-X.** 20¢

PHLOX

Polemoniaceae. Annuals and perennials, in many forms. They are easily grown from seed.

—**decussata:** see **P. paniculata.**

DRUMMONDII grandiflora:

Large flowers on 2-3 ft. plants; robust growth; HHA; C-8.

—**Isabellina.** **PHLX-1B.** 20¢
Buff-yellow flowers.

—**Leopoldii.** **PHLX-1L.** 20¢
Rose-pink with white eye.

—**Tetraploid.** **PHLX-1T.** 35¢
Giant flowering; deep red; strong stem-med. ½ Oz. \$1.00.

—**Mixed.** **PHLX-1X.** 20¢
Above: **Oz.** \$2.60.

DRUMMONDII nana compacta:

Dwarf compact plants early choice for bedding.

—**Globe Mixed.** **PHLX-2GX.** 25¢
Uniform very compact ball-shaped habit.

½ Oz. \$2.25.

—**Mixed.** **PHLX-2X.** 20¢

DRUMMONDII BEAUTY:

An extra dwarf strain of compact and uniform habit; large bright flowers.

—**Beauty Mixed.** **PHLX-3X.** 25¢

—**paniculata.** **PHLX-37.** 25¢

Perennial Phlox. In many colors; fls 1" ac; 4 ft; HP; this species needs a cold spell before germinating, so do not expect germination from summer planted seed; C-24. Formerly listed as **P. decussata.** **Oz.** \$2.00.

—**New Hybrids** **PHLX-37H.** 35¢
New German Hybrids in new colors.

PHOENIX. (FEE-nix)

Date Palm. **Palmaceae.** They are grown in the North as sub plants but are hardy in the South. Seed should be ordered early with delivery usually in late fall when seeds are fresh; C-45.

—**ca. a. e. s. s.** **PHOE-2.** 25¢
(Jubae tenuis) Palms to 50 ft; very striking and one of the hardiest. c. s. **Oz.** 50¢;
lb. \$1.50.

—**dactylifera.** **PHOE-5.** 50¢
Date Palm. (IX); ornamental. **Oz.** 75¢.
(dak-til-LIF-er-ah).

—**hybrids.** **PHOE-10.** 50¢
100 seeds \$2.50; 1,000, \$3.50.

—**reclinata.** **PHOE-12.** 75¢
Best known of the African Palms. 100 seeds \$3.00; 1,000, \$9.00.

—**rupicola.** **PHOE-19.** 50¢
Fast growing Palm and of interest as a lawn specimen in far S or for pot culture indoors; to 20 ft.

—**syvestris.** **PHOE-15.** 75¢
Wild Date Palm. Ornamental; (X). 100 seeds \$3.00; 1,000, \$9.00.

PHOENOCOMA.

South African shrubs.

—**prolifera.** **PHOC-10.** 40¢
Pink everlasting flowers; fine; 2 ft; TSH.

PHORMIUM. (FORM-ee-um)

Liliaceae. New Zealand natives, hardy in warm sections; sow seed in February either out doors or in pots in rich soil.

—**Cole-sol.** **PHOR-2.** 25¢
Mt. Flax. Excellent for an exposed bank or large rockery; 3-4 ft; (V); N. Z.

—**tenax.** **PHOR-4.** 50¢
Well known N. Z. plant; unrivaled as a graceful drooping specimen plant; its fiber is also of commercial value; fls dull red on tall spikes; 8 ft; (V); N. Z.; (TEN-ex)

—**rubra.** **PHO-1-4.3.** 50¢
Colored leaves of rich coppery bronze to brownish purple; most distinctive; 4 ft; (VI); N. Z.

—**tricolor.** **PHOR-7.** 40¢
Handsome N. Z. plant; nice for waterside or large tub; considered hardy in N. Z.

PHOTINIA. (foh-TIN-ee-uh)

Rosaceae. Trees and shrubs native of Asia. White flowers in panicles, followed by small berry-like fruits; sow seeds in spring better if stratified in sand during the winter. Same seed treatment as for Cotoneastes and Crataegus; they do not transplant well so grow in pots till wanted for their permanent situations.

—**glabra.** **PHOT-6.** 35¢
(serrulata) Young lvs in sp are delightful blend of suffused pink and pale green; fairly rich soil; 10 ft; fl-heads 4" ac; Japan; (IX). **Oz.** 90¢; lb. \$6.00.

—**glabra.** **PHOT-6.** 35¢
—**serrulata.** **PHOT-8.** 40¢
(Crataegus glabra) Ev. sh. or tr to 40 ft; fls heads to 6" ac; China; nice ornamental tree for South.

—**villosa v. laevis.** **PHOT-11L.** 40¢
(Porthiaca arguta) Decid. sh. or tr; 10 ft; (IV); Japan; this has smaller glabrous ls. **Oz.** 90¢; lb. \$6.00.

If you should receive a credit order blank reorder on the blank and take the credit due from the total. Or a cash refund will be made upon request.

PHRAGMITES.

Gramineae. Tall perennial grasses; spikelets in panicles; wet places; ornamental.

—**maxima.** PHAA-3. 50¢
Lamb-ear-like lvs with feathery plums, 6 ft high, purplish, fading to white; grow in or near water; Australia.

PHYGELIUS.

(fye-JEEL-ee-us)

—**capensis.** PHYC-3. 50¢
Cape Fuchsia. GH; 3 ft; purple-scarlet fls, 2" long.

PHYLITIS.

(Scolopendrum vulgare or officinarum). Hart's-tongue Fern. Hardy.

—**Scolopendrium.** PHYF-1. 50¢
Gold and Silver Ferns. (Ceropteris)

PHYLLANTHUS.

Euphorbiaceae. Grown in warm climates; fruits edible.

—**Emblica.** PHYA-6. 40¢
Shs or trs to 30 ft; fruits used as pickles; (X).

PHYLLODOCE.

(fil-LOD-oh-see)

—**aleutica.** PHYL-1. \$1.00
HP; 12"; Alaska; whitish fls.

—**empetriformis.** PHYL-6. 50¢
Rose-purple fls; 6"; moist peat; HP.

—**aleutica.** PHYL-1. \$1.00
White bell-shaped fls; 6"; Japan.

PHYLLYREA.

Oleaceae. Small ev. trs. and shs from Mediterranean; ornamental; (VI) zone and South.

—**aurantiifolia.** PHY-3. 40¢
To 15 ft; hardy in South. Oz. 90¢.

PHYSALIS.

(FYE-sal-iss)

Husk Tomato, Ground Cherry. Easily grown; start indoors or plant direct to soil, treating them as for Tomatoes. Most of those offered are very ornamental; C-7.

—**A kekengi.** PHYS-1. 25¢
(P. Franchetii) Chinese Lantern Plant.

Ornamental seed pods for dried decorations; HHP; grow as HA. Oz. \$1.25; lb. \$13.00.

—**puinosa.** PHYS-9. 25¢
Edible Ground Cherry. Wisconsin native.

PHYSIANTHUS albens: see *Araujia*.

PHYSOCARPUS.

(fye-soh-KARP-us)

Ninebark, Rosaceae. Deciduous Spirea-like shrubs; white or pinkish flowers in umbel-like clusters, followed by inflated pods; hardy in the North.

—**luteus.** PHYC-9L. 40¢
Yellow flowers.

—**opulifolius.** PHYC-9. 30¢
(*Spiraea opulifolia*) 10 ft; fl-heads 2" ac; (IV).

PHYSOSTEGIA.

(fye-sos-TEEJ-ee-uh)

False Dragon-head. Labiatae. Hardy perennials thriving best in a cool moist place with some shade. Beautiful in the border or for cutting.

—**virginiana.** PHOS-4. 25¢
Flowers in pretty spikes; purplish red to rose-pink; 4 ft; HP.

—**Rose-lilac.** PHOS-4R. 25¢
Variety in one color.

—**White.** PHOS-4W. 25¢
Above ½ Oz. \$1.00.

VEGETABLE SEEDS: I have not been able to list these in one Catalog but now with new postal limit to 16 ounces they will be included in the one Catalog; see last pages.

PHYTEUMA.

(fye-TEW-muh)

Best from seed.

—**canescens.** PHYT-3. 40¢
Good rockery plant for late summer display; lavender-blue fls; 6 inches; HP.

—**Charmellii.** PHYT-4. 35¢
Fluffy blue heads on 5" stems; 1 ft; HP.

—**comosum.** PHYT-6. 75¢

Best of the *Phyteumas* and not too difficult if given compost of 2 parts fine limestone chips, 1 of coarse sand, 1 of leaf mould and allow ample root room; water well while in growth in sp; fairly dry in winter, dipping bottom 2" of pot in water for a minute each month till Feb; 6"; dark purple fls; HP. (20 seeds).

—**Scheuchzeri.** PHYT-17. 30¢
Easy and showy; bright blue in dense heads; HP.

—**specatum.** PHYT-20. 50¢
White fls with greenish tips; dense spikes; 4 ft; HP.

—**Mixed.** PHYT-X. 25¢

PHYLITIS.—**Scolopendrium.**

PHYF-1. 40¢

PHYTOLACCA.

(fye-toh-LAK-uh)

Phytolacaceae. Pokeberry. Easily grown plants, shrubs or trees; fls in terminal racemes; fruits a fleshy berry; ornamental.

—**americana.** PHYO-1. 25¢
Plant to 12 ft; fls bisexual, white or purplish; Me-Fla; (IV).

—**esculenta.** PHYO-5. 30¢
Shoots are edible but must be par-boiled; fr. poisonous; attracts birds; 2-6 ft; HP.

PICEA

Spruce. Pinaceae. Pyramidal evergreen trees, many very ornamental while others are valuable timber trees; best from seeds.

—**Abies.** PICA-1. 30¢
Norway Spruce; sow in spring. Oz. 50¢;

o. \$5.00.

—**Englemannii.** PICA-11. 50¢
One of the hardest Spruces. Oz. \$2.00.

—**glauca.** PICA-11G. 40¢
Snowy Mts. Englemann S. Oz. 90¢; lb.

\$100.

—**glehnii.** PICA-13. 40¢
(alba) White S. (III). Oz. 70¢; lb. \$7.00.

—**densata.** PICA-12D. 30¢
Saghalin Spruce. Very hardy; Japan.

Oz. \$1.00.

—**jezoensis.** PICA-14. 50¢
Yeddo S. Ornamental evergreen; North Asia; hardy in N. Oz. 75¢; lb. \$7.50.

—**Ho-doensis.** PICA-14H. 40¢
Has shorter dull green lvs. Oz. 80¢.

—**Koyama.** PICA-18. 50¢
Hardy Japanese Spruce. Oz. \$1.00.

—**Maximowiczii.** PICA-21. 50¢
Japanese Bush Spruce. Hardy in North.

Oz. 80¢.

—**orientalis.** PICA-27. 50¢
Hardy; (IV).

—**polita.** PICA-28. 35¢
Tiger-tail S. Stiff glossy dark green lvs; Japan; hardy N. Oz. 80¢; lb. \$6.00.

—**purgens.** PICA-29. 50¢
Colorado S. (III). Oz. \$2.00; lb. \$12.00.

—**glauca.** PICA-29G. 50¢
Leaves bluish. Oz. \$2.50; lb. \$13.00.

—**rubens.** PICA-33. 50¢
(rubra) Red S. (III). Oz. \$4.00.

—**sitchensis.** PICA-36. 50¢
Sitka Spruce. (I); B. C. Oz. \$1.50; lb.

\$16.00.

—**Smithiana.** PICA-37. 50¢

75¢; lb \$5.00.
—*penia. hylla.* PINU-54P. 25¢
The wild form of above. Oz. 50¢; lb.
\$5.00.

—*penia. hylla.* PINU-55. 40¢
—*Pinaster.* PINU-58. 25¢
Oz. 50¢; lb. \$1.00.

—*Pinus. il.* PINU-58H. 35¢
Shorter lvs; larger cones. Oz. 60¢.

—*Pinus. il.* PINU-62. 30¢
Italian Stone Pine. (IX). Oz. 75¢.

—*Pinus. il.* PINU-63. 35¢
Western Yellow Pine. (IV). Oz. \$1.00.

Needs no stratification.
—*Pinus. il.* PINU-63S. 35¢
Rocky Mt. Yellow Pine. Oz. 60¢.

—*Pinus. il.* PINU-64. 50¢
Dwarf Stone Pine. Shrub with prostrate
branches; N. Asia. Oz. \$1.00; lb. \$6.00.

—*Pinus. il.* PINU-68. 35¢
(insignis) Monterey Pine; (VII). Oz. 75¢.

—*Pinus. il.* PINU-69. 40¢
Red Pine. Good ornamental species. Oz.
\$1.70; lb. \$18.00.

—*Pinus. il.* PINU-71. 35¢
Pitch Pine. (VI). Oz. \$1.00.

—*Pinus. il.* PINU-72. 40¢
Roxburghii. (P. longifolia) Very beautiful Himalayan
Pine.

—*Pinus. il.* PINU-73. 35¢
Sabiniana. Digger Pine. (IX). Oz. 60¢.

—*Pinus. il.* PINU-75. 35¢
Strobilus. White Pine. Wisc. seed; (III). Oz. 50¢.

—*Pinus. il.* PINU-76. 35¢
Sylvestris. Scotch Pine. Oz. 60¢.

—*Pinus. il.* PINU-76R. 40¢
Ergensis. Very red bark; Poland. Oz. 90¢.

—*Pinus. il.* PINU-78. 50¢
Taeda. Commonly Pine. (III). Oz. \$2.00.

I have trouble in getting this seed; anyone
in the South having it please advise; the
seed should be held in moist peat moss a
month before planting out.

—*Pinus. il.* PINU-97. 35¢
Torreyana. Torrey Pine. S. Calif. Oz. \$1.75.

—*Pinus. il.* PINU-82. 50¢
Thunbergii. Japanese Black Pine. Japan; hardy in
(VII). Oz. 60¢; lb. \$2.00.

NOTE: Nurserymen wanting Pine seed in
quantity, should make inquiry prior to
planting of the seed, if lower prices are
expected.

PIQUERIA. (pik-WEER-ee-uh)
Compositae. The most popular species is
the Stevia grown by the Florist: C-7.

—*Pinus. il.* PIOU-4. 50¢
(Stevia serrata) White fls in panicle
corvmb; Mex to C. Amer; much grown
by florist for cutting. ¼ Oz. \$1.50.

PISTACIA. (pis-TAY-shee-uh)
Anacardiaceae. Warm climate trees and
shrubs many of which are grown for their
nuts, oil and gums. Seed best means of in-
crease; soak seed in warm water for several
days before planting.

—*Pistacia.* PIST-2. 50¢
chinensis. 15 ft. decid. tr with autumn fol. similar
to Rhus succedaneum; but tr is not toxic.
100 seed \$2.00.

—*Pistacia.* PIST-3. 30¢
Lentiscus. Evergreen tree; 15 ft; (VI). Oz. 50¢.

—*Pistacia.* PIST-7. 30¢
Terebinthus. Small deciduous tree; (VI). Oz. 50¢.

—*Pistacia.* PIST-10. 35¢
vera. Pistachio. Deciduous tree of Medit. re-
gions, grown there for its edible nut, tast-
ing much like a peanut.

—Mixed. PIST-X. 25¢

PITHECELLOBIUM. (pith-es-sel-LOH-bee-
um) Leguminosae. Warm region trees and
shrubs grown in the South for ornament or
for their lumber.

—*Pithecellobium.* PITB-1. 50¢
Ornamental tree to 50 ft; (X). 100 seeds
\$2.50.

—Samen: see Samanea Samen.

PITTOSPORUM

Pittosporaceae Sub-tropical evergreen trees
and shrubs having very ornamental foliage,
fruit and flowers; one a fine GH subject.

Sow in March or April in pans; cool GH
or in frames; (pit-TOS-poh-rum).

—*Pittosporum.* PITT-2. 40¢
Buckananii. Glossy dark green foliage making it a
handsome shrub or small tree; 15 ft; (V);
N. Z.

—*Pittosporum.* PITT-5. 40¢
cassifolium. Hardy compact shrub with chocolate-
brown scented fls; fine on coast; ornament-
al shrub; 20 ft; (VI); N. Z.

—*Pittosporum.* PITT-8. 30¢
eugenioides. Tarata. The lemon scented Matipo,
round-headed tree, 12 ft high with highly
scented, creamy white fls; leaves when
crushed have a strong lemon scent; N. Z.

—*Pittosporum.* PITT-18. 40¢
Ralphii. Similar to P. cassifolium with larger
leaves, covered beneath with thick white
down; fine coastal tree; 10 ft; (VII); N. Z.

—*Pittosporum.* PITT-19. 50¢
revolutum. Very interesting and rare Australian
species; 3 ft; flossy fol; yellow wax fls; best
when in fruit.

—*Pittosporum.* PITT-20. 40¢
rhombifolium. Queensland tree; 80 ft; (X); orange-red
flowers; ornamental.

—*Pittosporum.* PITT-21. 30¢
tenuifolium. Taubhihi. Small tree; bark and fls
almost black; pale green foliage, sometimes
reddish; splendid for hedges; 10 ft; (V).
Also a good tub-plant.

—*Pittosporum.* PITT-21A. 40¢
argenteum. More compact; finely cut silvery leaves;
very effective; 6-8 ft; (V); N. Z.

—*Pittosporum.* PITT-24. 35¢
umbellatum. Tr to 25 ft; fls in many-fl terminal
umbels; fr ½" ac; N. Z.

—*Pittosporum.* PITT-28. 35¢
vitiiflorum. Masses of small fragrant cream fls on 20
ft tree; S. Af; HHTr.

—*Pittosporum.* PITT-23. 35¢
Tobira. Sh; 15 ft; white fls; (IX). Oz. 50¢; lb.
\$2.75.

—*Pittosporum.* PITT-25. 35¢
undulatum. Victoria Box. Tree to 40 ft; (X). Oz. 90¢.

Young plants make effective foliage pot
plants for the cool house; can be grown
out doors during summer; good nutritive
soil; fls white with orange-like rich odor;
ad about October.

—Mixed. PITT-X. 25¢

PITYROGRAMMA. (Gold and Silver F)
calomelanos. PITF-1. 50¢

PLAGIANTHUS.
Malvaceae. Trs and shs native of Austral-
ia and N. Z.; for South; seeds sown in pans
during Feb. germinate freely.

—*Plagianthus.* PLAG-4. 35¢
betulinus. Deciduous tr; young growth different
from the old; white fls; N. Z.

PLANTAGO. (plan-TAY-goh)
Plantaginaceae. Plantain. The seed may not
germinate well the first year but prompt
the second year.

—*Plantago.* PLAN-4. 25¢
lanceolata.

Rib-Grass. HP.

PLATANUS.

(PLAT-an-us)

Plane-tree. Platanaceae. Thrives in rich moist soils; some are fine street trees; seeds germinate freely if sown in pans of loamy soil in early spring.

—*acerifolia*.**PLAT-1. 30¢**

London Plane Tr. (ay-ser-if-FOH-lee-ah)

Oz. 50¢—*occidentalis*.**PLAT-5. 25¢**

Buttonwood. 150 ft; Me-Fla; (IV). c. s.

Oz. 50¢; lb. \$2.00.—*orientalis*.**PLAT-7. 25¢**Oriental Plane. 100 ft; not common; (IV). c. s. **Oz. 50¢; lb. \$4.00.****PLATYCARYA.**

(plat-ik-KAY-ree-ah)

Juglandaceae. Decid. shs or trs; 40 ft; China.

—*strobilaceae*.**PLAC-1. 25¢**A Sumach-like bush; fls in slender cone-like catkins; (VI) or possibly (V). **Oz. 50¢; lb. \$3.50.****PLATYCODON.**

(plat-ik-KOH-don)

Balloon Flower. Campanulaceae. One showy perennial, thriving in loamy soil, in full sun; blooms second year from seed.

—*grandiflorum*, Mixed.**PLTY-IX. 25¢**White and blue fls; very beautiful; 2½ ft; LC; C-23; or 24; HP. ¼ Oz. **\$1.30.**—*Blue*.**PLTY-IB. 25¢**—*Double*.**PLTY-ID. 25¢**

Double blue star fls; 2 ft; HP.

—*roseum*.**PLTY-IR. 30¢**

New and lovely variety; beautiful satiny pink fls freely produced; 15"; HP.

—*Mariesii*.**PLTY-IM. 30¢**

More dwarf form; pretty blue fls; HP.

¼ Oz. **\$1.40.****PLECTRITIS.**—*coarctata*.**PLEC-1. 30¢**

(Valerianella) Rose fls; 2 ft; (VI); HA.

PLEIOSPILOS.

(plye-oh-SPYE-los)

—*Dekenhahii***PLEP-7. 50¢**—*Nelii*.**PLEP-15. 50¢**—*optata*.**PLEP-19. 50¢**—*simulans*.**PLEP-28. 50¢**

Flowers during Sept-Oct.

PLEIOTAXIS.—*speciosa*.**PLEX-1. 35¢**

Very decorative; RG; bright crimson fls; (IX).

PLUMBAGO.

(plum-BAY-goh)

Leadwort. Plumbaginaceae. The flowers are in terminal spikes; not hardy in the North.

—*capensis*.**PLUM-1. 40¢**Climber; good for GH; blooms on new wood, prune back well in sp; light sky-blue fls; (X); C-22. 100 seeds **\$3.00.**—*zayanica*.**PLUM-5. 30¢**

Rare South Rhodesian shrub; pure white fls; drought resistant.

PLUMERIA.

(plo-MEER-ee-uh)

Frangipani. Apocynaceae. Tropical Amer. trees and shrubs; flowers appearing before leaves; very fragrant.

—*rubra v. acutifolia*.**PLUR-6A. 35¢**

(P. acuminata) 15 ft; large leaves, 4x16"; white with yellow centers, flushed rose; these flower well under glass; Venezuela.

A charge of 25¢ must be made for Catalog

POA.

(POH-uh)

Gramineae. Annual and perennial grasses mainly used in lawns.

—*amabilis*: see *Eragrostis amabilis*.—*caespitosa*.**POA-6. 30¢**

Tussock Grass from Australia.

—*violacea*.**POA-11. 25¢**

A fine leaf bunch grass that would be useful as edging material; HP; 6".

PODACHAENIUM.

Compositae. C. Amer. and Mex. shrubs or small trees; flowers in small heads of white ray-fls, yellow disk-fls; (IX).

—*eminens*.**PODA-3. 35¢**

Fl-heads 1" across; to 25 ft; Mex; (X).

PODALYRIA.

Leguminosae. South African shrubs; ornamental; (IX).

—*sericea*.**PODY-8. 35¢**

(ser-RISS-ee-ah)

PODOCARPUS.

(pod-oh-KARP-us)

—*dacrydioides*.**PODC-5. 40¢**

Ka ika White Pine. Tall N. Z. tree; hardy only in far S; tub plant.

—*macrophylla v. Maki*.**PODC-12M. 50¢**—*Nagi*.**PODC-13. 50¢****PODOLEPIS.**—*acuminatus*.**PODP-2. 35¢**

Showy perennial Australian native; with bright yellow fls, 2" ac, and a fringe of deeply cut florets surrounding a darker disk.

PODOPHYLLUM.

May-Apple. Berberaceae. Planted in shady places in wild gardens; HHP.

—*emodi*.**PODO-5. 50¢**

Flesh pink fls; medicinal herb; 1 ft; fr 2" ac; Himalayas.

—*petitatum*.**PODO-10. 35¢**

White fls, 2" ac, nodding; shade; grows readily from seed sown in fall; 18 inches tall. **PLANTS: 60¢; 3-\$1.40.**

PODRANEA.—*Brycei*.**PODR-3. 40¢**

(Tecoma Reginae-Sabae) Pale pink fls with red marks; yellow throat; S. Rhodesia.

POINCIANA.

(poin-see-AH-nuh)

Leguminosae. Beautiful trees and shrubs native of warm regions; (IX).

—*Gillesii*.**POIN-2. 30¢**

Shrub to 20 ft; light yellow fls; popular in the South; (IX). **Oz. 75¢; lb. \$7.00.**

—*pulcherrima*.**POIN-4. 40¢**

Barados Pride, Dwarf Poinciana. Orange fls; shrub to 10 ft; requires rich sandy soil; soak seeds 24 hours before planting; (X). (pull-KEHR-im-ah) 100 seeds **\$2.00.**

—*flava*.**POIN-4F. 40¢**

Has yellow flowers.

—*regia*: see *Delonix regia*.**POINSETTIA**: see *Euphorbia pulcherrima*.**POLEMONIUM**

Polemoniaceae. Perennials grown in the border; easily grown; rich loam; best from seed sown in the fall. Flowers are blue, purplish white or yellowish, often nodding, in terminal corymbs; C-23.

—*caeruleum*.**POLE-4. 25¢**

Fern-like lvs; gorgeous sky-blue fls; 3 ft; HP. **Oz. 90¢.**

—*Haydenii*.**POLE-16. 25¢**

Blue or white fls; May-June; RG; 1 ft; HP.

—**occidentale.** **POLE-21. 25¢**
Native bog species; blue or violet fls; 1½ ft; HP.

—**pulcherrimum.** **POLE-24. 25¢**
Easy and pretty; pale blue fls; fine for RG; 1 ft; HP.

—**Richardsonii.** **POLE-27. 25¢**
Blue or purplish fls, ½" across; 9"; HP.
—**Species Mixed.** **POLE-X. 25¢**

POLYGALA. (poh-LIG-uh-luh)
Milkwort. Polygalaceae. Most are tender annuals and perennials and grown under glass in the North; light soil and partial shade.

—**appetala.** **POLG-4. 25¢**
Large pink fls, ½" across; 10 ft; sh; (VII).
—**myrtilifolia v. gr. fl.** **POLG-14. 40¢**
Rich purple fls; 8 ft; GH; (X). 100 seeds \$9.00.

POLYGONATUM. (pol-ig-on-NAY-tum)
Solomon's Seal. Liliaceae. Creeping roots; thrives in shady places and in deep rich soil; good for the wild garden.

—**biflorus.** **PLANTS ONLY.**
Small Solomon's Seal. Bell-shaped yellowish fls; June-July; dark blue br; shade or part; 1-3 ft. **PLANTS: 65¢; 3 for \$1.35.**
—**commutatum.** **POLO-4. 25¢**
Great Solomon's Seal. 8 ft; fls ¾" long; this has an epicotyl dormancy and if planted in spring will take a winter to show green leaves; N. Amer; HP; (IV).

POLYGONUM. (pol-LIG-on-um)
Fleece-flower. Polygonaceae. A large genus of annuals and perennial grown in the border or wild garden.

—**amplexicaule.** **POLY-4. 25¢**
Pretty; spikes of small rose-pink or white fls; 3-4 ft; HP; (am-plex-ik-KAW-lah).

—**macrophyllum.** **POLY-12. 25¢**
—**molis.** **POLY-13. 25¢**
Shrubby; panicles of white fls; will grow in moist places; 3 ft; HB.

—**orientale v. Rubin.** **POLY-15R. 25¢**
Interesting cut-flower or border plant; pretty red fls; warm sunny spot; 1½ ft; HHA; C-8.

—**Species Mixed.** **POLY-X. 20¢**
Only the above or other garden kinds.

POLYPODIUM.
—**aureum v. Mandaianum.** **POLF-1M. 50¢**
A wavy leaved form.

—**subariculatum.** **POLF-27. 50¢**
—**vulgare.** **POLF-31. 50¢**
ledges and boulders; excellent RG; 6-18 in.

Plants: 55¢ each; 3, \$1.50. Prepaid.
Common Polypody. Found covering

POLYPTERIS. (pol-LIP-ter-iss)
Othake. Compositae. Erect plants with rose-purple or flesh colored, radiate heads in loose panicles.

—**Hookeriana.** **POLP-1. 25¢**
Flower heads 1" ac; rays rose-red; pretty cut flower.

POLYSTICHUM. (poh-LIS-ti-kum)
Hardy species found in deep woods; prefers limestone and leaf mould; GH species give 3 parts sandy peat and 1 of loam; shade.

—**acrostichoides.** **POLS-1. 50¢**
Christmas Fern. Very ornamental in masses in shade or part shade; 9-18 inches; useful in flower design.
Plants: 50¢ each; 3, \$1.40. Prepaid.

—Richardii.

POLS-20. 50¢

PONCIRUS.

Rutaceae. Small tr from China; hardy in IV zone.

—**trifoliata.** **PONC-5. 40¢**
Trifoliata-Orange. White fls in sp before 2" ac; aromatis; fr orange-like; China.

PONGAMIA.

Leguminosae.

—**pinnaia.** **PONG-3. 40¢**
(glabra) Karum or Poonga Oil Tr. 40 ft; ornamental; for South. **Oz. 95¢.**

POPPY

Papaver. ((pap-PAY-ver) Papaveraceae. Common name for the genus Papaver; these beautiful flowers come in both annual and perennial species and in a wide range of showy colors. They are easily grown but the seed should be either sown in the fall or very early in the spring; they do not take to transplanting; germinates best in dark.

—**alpinum.** **POPPY-2. 25¢**
Alpine Poppy. Nearly stemless; white or yellow fls; 10"; C-24; LK; HP. ½ Oz. \$1.75.

—**bracteatum.** **POPPY-10. 20¢**
Blood-red fls; hairy stems; 3 ft; HP.

—**cardinale fl. pl.** **POPPY-12. 20¢**
Cardinal Poppy. Double red fls; HA.

—**glaucom.** **POPPY-17. 25¢**
Tulip Poppy. Deep scarlet fls, 4" ac; 2 ft; HA; Persia. **Oz. \$1.00.**

—**Mare.** **POPPY-25. 25¢**
Hardy Poppy from Atlas Mts; anthers black; rose or white fls.

—**P. ORIENTALE:** Hardy perennials with huge flowers in varied colors; seed does not come entirely true to variety but the resulting plants are extra good; seedlings, however, are more robust than the vegetatively increased plants; C-23.

—**Beauty of Livermore.** **POPPY-30L. 25¢**
Resected huge crimson flowers.

—**B-liliant.** **POPPY-30B. 25¢**
Brightfiery red. ¼ Oz. \$1.50.

—**Princess Victoria Louise.** **POPPY-30VL. 25¢**
A beautiful salmon shade.

—**Queen Alexandra.** **POPPY-30A. 25¢**
Salmon with large crimson blotch.

—**Rembrandt.** **POPPY-30R. 25¢**
Mahogany-red flowers.

—**Victoria.** **POPPY-30V. 25¢**
Beautiful salmon-pink with black blotch.

—**Blend of Above.** **POPPY-30X. 25¢**

PRICE: Any above varieties, **Oz. \$1.75.**

P. NUDICAULE: Iceland Poppy. Perennials to 1 ft; blooming first year from seed; they rarely last over 3 years but reseed freely; April-June; charming in mass plantings; try them in fields or waste places; they are excellent border flowers; C-24.

—**Red Cardinal.** **POPPY-28R. 25¢**
NEW. Purest red; very showy; extremely beautiful. ½ Oz. \$1.25.

—**amurense.** **POPPY-28A. 25¢**
Showy butter-cup yellow fls; 2 ft; HP.

—**Coonara Pink.** **POPPY-28C. 25¢**
Gorgeous rose tints, soft pink to deep rose; 15"; HP.

—**El Monte.** **POPPY-28E. 25¢**
A new beautiful deep tangerine-orange, fringed petals; HP.

—**Gartford Giants.** **POPPY-28F. 25¢**

- Crinkly petals; ideal cut-flower if cut in the bud; 2-3 ft. Oz. \$2.00.
- Gibson's Giants.** **POPY-28G.** 25¢
Lovely orange; huge blooms.
 - Keimscott Sirain.** **POPY-28K.** 25¢
Huge blooms, 3" across; very pretty; 3 ft. Oz. \$2.00.
 - Sunbeam.** **POPY-28B.** 25¢
Improved strain; bright yellow.
 - Sanford's Giants.** **POPY-28S.** 25¢
Immense flowers on stiff stems; fine color range.
 - The Emperor.** **POPY-28TM.** 25¢
Giant orange variety.



GARTFORD GIANTS

- The Empress.** **POPY-28M.** 25¢
Huge salmon-rose and pink blooms.
 - White.** **POPY-28W.** 25¢
Showy satiny white; distinctive.
 - Mixed.** **POPY-28X.** 20¢
- PRICE:** Any above; Oz. \$1.50; lb. \$14.00.

- RHOEAS:** Shirley Poppy. They have been very highly improved and come in many bright colors; petals crinkled; sow late in the fall in the South; HA to 3 ft.
- American Legion.** **POPY-38A.** 20¢
Dazzling orange-scarlet with black spot.
 - All Double Fantasy.** **POPY-38F.** 20¢
Double blooms in bright colors.
 - Begonia Flowered.** **POPY-38BF.** 25¢
Large double fls in bright colors.
 - Carnation Flowered.** **POPY-38N.** 20¢
Mixed colors in Carnation-type blooms.
 - Cavalcade.** **POPY-38C.** 20¢
Double Begonia-type blooms in a rich orange-scarlet; huge; 2 ft.
 - Dazzler.** **POPY-38D.** 20¢
Double orange-scarlet; beautiful.
 - Gaiety.** **POPY-38G.** 20¢
White with a pink edge; very showy and dainty.
 - Orange King.** **POPY-38K.** 20¢
A beautiful deep orange.
 - Rev. Will's Strain.** **POPY-38W.** 25¢
Single flowers in a beautiful color range.
 - Sweet Briar.** **POPY-38B.** 25¢
Double Begonia flowered; in a pretty wild rose pink.
 - Single Shilev Mixed.** **POPY-38SX.** 25¢
 - Shirley Blend.** **POPY-38X.** 20¢
 - Double Shirley Blend.** **POPY-38DX.** 20¢

OTHER POPPY SPECIES:

- pilosum.** **POPY-34.** 25¢
Olympic Poppy. Brick-red fls, 2" ac; 3 ft; HP.
- rupifragum.** **POPY-39.** 25¢
Pale red flowers 3" across; 1½ ft; HP; Spain; (VI).

POPULUS.

Poplar. Aspen, Cottonwood. Salicaceae.

Deciduous, soft wood bushes and trees; widely planted; quick growing.

- a. ba.** **POPU-5.** 35¢
White Plane, Abele; 90 ft.
- canadensis.** **POPU-15.** 35¢
Carolina Poplar.
- nigra.** **POPU-40.** 35¢
Black Poplar. 90 ft.

PORTULACA

Moss Rose. Portulacaceae. (port-yew-LAY-kuh) Perennials that are usually treated as hardy annuals in the North; low growing fleshy stemmed plants having brilliant showy flowers in many bright colors; sun loving doing well in the hottest spots where other flowers would soon perish; sow in April where they are to grow; pretty in beds; sow in pans of light soil during March at 65 deg. F or out doors in April; barely cover seed.

- grandiflorum fl. pl.** **PO.T-IDX** 25¢
Double flowered in rose, red, yellow, and white. ¼ Oz. 75¢.
- Single Jewels.** **PORT-1JX.** 25¢
The best in single flowers; bright and glistening; all colors. ¼ Oz. 60¢.
- parana.** **PO.T-6.** 25¢
A South Rhodesian species; (IX).
- Portulaca Blend.** **PORT-X.** 25¢

POTENTILLA.

Cinquefoil. Rosaceae. (poh-ten-TIL-ah). A very large genus most of which are hardy in the North; good as border or rockery plants; sandy soils; flowers yellow, white or red, solitary or in terminal cymes; C-23, sow in Feb. in cold frame or GH., best.

- agyophylla.** **POTL-12.** 25¢
Sprays of showy yellow fls, 1" across; RG; 1 ft; HP.
- coccinea.** **POTL-30.** 25¢
Masses of red flowers in summer; 1 in; HP.

- climane.** **POTL-31.** 25¢
From India.

- fragiformis.** **POTL-49.** 25¢
Golden yellow fls, 1" across; 8"; HP.

- fruticosa.** **POTL-52.** 25¢
One of the best shrubs for the RG; yellow rose-like fls; 3 ft; HP.

- fulgens.** **POTL-53.** 25¢
Silvery leaves; trailer; salmon-rose fls; 15"; HP.

- Gibsonii.** **POTL-56.** 25¢
Large brilliant scarlet flowers.

- Halacsyana.** **POTL-65.** 25¢
Hybrids.

- Double French hybrids.** **POTL-70W.** 25¢
—**macrantha:** see **Hebe macrantha.** **POTL-70WB.** 25¢

- White Beauty.** **POTL-70WB.** 25¢
- Miss. Willmott.** **POTL-70W.** 25¢
Bright carmine flowers.

- Pink Rose Beauty.** **POTL-70Y.** 30¢
Primrose fls; 2 ft; June-Sept; will bloom in Autumn if cut back.

- nepalensis hybrids.** **POTL-84.** 25¢
Rose and rosy crimson flowers; 2 ft; HP.

- nepalensis v. Willmottiae.** **POTL-84W.** 40¢
Dwarf free flowering form; magenta-rose; 2 ft; HP.

- nifida.** **POTL-86.** 30¢
Rose flowers 1" across; mat-forming; 1 inch; RG; Alps; HP.

- recta v. Warrensii.** **POTL-106W.** 40¢
Large bright yellow flowers

- Herbuculii.** **POTL-106H.** 30¢
Flowers in many-flowered clusters, 1" across; 2½ ft; HP.

- to mentilloloformosa.** **POTL-127.** 35¢
(Tongue!) Prostrate; yellow fls; HP.

- Potentilla Mixed.** **POTL-X.** 25¢

OCONICA: Greenhouse Primulas.

These make the best of flowering pot plants; easy to grow too; seed is very variable in germinating, so start them early; sown in May, gives good results. Keep the seed dark while germinating; grow at around 60 degrees F. till spring, when they should have 45-55 temperature. Only the very best strains of seeds are offered.

- Berliner Rot.** PRIM-113B. 50¢
- Fassbender Red.** PRIM-113F. \$1.00
- Deep crimson; large flowers.
- Friesdorfer Lachs.** PRIM-113D. \$1.00
- One of the very best salmons.
- Grower's Pride.** PRIM-113GP. 50¢
- Konigsee.** PRIM-113K. \$1.00
- Pure blue.
- Pearl of Niederrhein.** PRIM-113N. \$1.00
- Dark red with a copper sheen; compact habit; medium sized flowers.
- Snowstorm.** PRIM-113S. \$1.00
- Pure white.
- Wyaston Wonder.** PRI-M-113W. \$1.00
- Dark crimson; extremely large flowered; compact habit.
- Finest Mixed.** PRIM-113X. 75¢
- Very choice. 1/16 Oz. \$58.50.

- obliqua.** PRIM-118. 50¢
- White fis with yellow ring.
- Parryii.** PRIM-120. 40¢
- Purple with yellow eye; 1 ft; Rocky Mts; HP.
- Payneura.** PRIM-122. 30¢
- pulverulenta.** PRIM-131. 40¢
- Purple fis with orange-brown eye; umbels; 8"; HP.
- Bartley Strain.** PRIM-131B. 50
- A handsome and strong growing type with tiers of beautiful pink, salmon and rose colored fis; fine in damp, shady places.
- reticulata.** PRIM-135. 35¢
- Himalayan species.
- rosea grandiflora.** PRIM-134G. 50¢
- Large bright rose fis; new seed in July.
- Roylei.** PRIM-137. 50¢
- Purplish crimson fis.
- saphirina.** PRIM-133. 50¢
- A very rare species with rich bluish mauve flowers.
- saxatilis.** PRIM-139. 40¢
- Heads of bright pink fis in clusters; 10".
- secundiflora.** PRIM-144. 40¢
- Deep violet fis, one-sided umbels; 8"; HP
- Steholdii.** PRIM-148. 50¢
- White, rose, purple, 2" ac; 8"; Japan; HP.
- sikkimensis.** PRIM-150. 40¢
- Yellow fis, 1" ac; umbels; 2 ft; Himalayas; HP

POLYANTHUS PRIMROSES

The Polyanthus Primroses are probably hybrids between *P. elatior*, *veris* and *vulgaris*. They are the hardiest and most easily grown of all Primulas, succeeding in just about all climates, even in Zone II. The seed can be sown any time but best in spring and early summer; this will produce plants that will flower the following summer. Seed bed best half leaf-mould and half good garden soil or peat and garden soil with some sand, it must be rich in humus; keep seed pans shaded; germination in about 15 days.

VETTERLE and REINELT SEED

This is recommended to the advanced amateurs only or professionals who wish to grow something outstanding.

Colors Available:

White; Rose; Crimson-rose; Scarlet; Dark

Red; Yellow; Bronze; Violet.

PRICE: \$4.00 per Pkt; \$2.00, 1/2 Pkt.

Pink Blends — Pastel Blends — Violet-Shades — Blue Shades.

PRICE: \$5.00 per Pkt; 1/2 Pkt. \$2.50.

The large packet contains about 350 seeds and come in V-R original packets. —Mixture of All. Pkt. \$4.00; 1/2 Pkt. \$2.00.

The following varieties are grown in Germany and are extra choice strains and recommended to the average grower.

- Blue Shades.** PRIM-125B. 50¢
- Light and dark blues. 1/2 Oz \$5.00.
- Giant Gold.** PRIM-125G. 50¢
- Golden yellow; showy.
- Giant Munstead.** PRIM-125M. 50¢
- White, primrose and yellow shades.
- Giant Mahogany.** PRIM-125H. 50¢
- Giant Primrose.** PRIM-125P. 50¢
- Primrose-yellow.
- Giant White.** PRIM-125W. 50¢
- Red Shades.** PRIM-125R. 50¢
- Scarlet and crimson shades.
- Above varieties: Oz. \$5.00.
- Colossal Strain.** PRIM-125C. 50¢
- Extremely large flowered in a wide color range. Oz. \$8.00.
- Bright Blend.** PRIM-125BX. 50¢
- Only the bright colors. Oz. \$4.00.

SINENSIS: Chinese Primroses; GH.

These are strictly pot plants, grown under glass; seed should be started in April; sow in pans or flats, keep at about 60 F. The seed does not germinate at one time; prick seedlings out as they reach a little size; keep plants in a moist atmosphere till rooted; 50 deg. F at night is good growing temperature; water potted plants with care

- Pure White.** PRIM-151W. \$1.00
- Beauty of Nice.** PRIM-151N. \$1.00
- Beautiful salmon-pink.
- Dazzler.** PRIM-151D. \$1.00
- Bright orange-scarlet.
- Defiance.** PRIM-151F. \$1.00
- Velvety crimson with brown eye.
- Duchess.** PRIM-151C. \$1.00
- Rosy white with dark eye.
- The Czar.** PRIM-151Z. \$1.00
- Dark blue.
- Choice Fringed Mixed.** PRIM-151X. 75¢
- The best blend. 1/16 Oz. \$8.50.

- vaginata.** PRIM-163. 40¢
- Bright purple shaded blue.
- veris hybrids.** PRIM-165H. 30¢
- Cowslip P. Extra large flowering; 8"; HP.
- Giant Munstead.** PRIM-165M. 50¢
- Gold Laced.** PRIM-165GL. 30¢
- Extra fine mixed. 3/4 Oz. \$3.00.
- Red Shades.** PRIM-165R. 35¢
- Scarlet and crimson shades. 1/2 Oz. \$5.00.
- Giant White.** PRIM-165W. 35¢
- Creamy white with yellow eye. 1/2 Oz. \$5
- Giant Munstead.** PRIM-165GM. 35¢
- White, primrose and yellow shades. 1/2 Oz. \$4.50.
- Mahogany Color.** PRIM-165G. 50¢
- Giant Primrose.** PRIM-165GP. 50¢
- Primrose-yellow flowers. 1/2 Oz. \$3.00.
- Colossal Superb.** PRIM-165K. 75¢

The largest flowered Polyanthea; this blend contains in addition to the main colors, many soft pastel shades in scarlet, bronze shades, soft rose-pink, creamy white etc. 1/2 Oz. \$4.50.

- vulgaris v. coerulea.** PRIM-173C. 50¢
- (*P. acaulis*) Dark blue, 1 1/2" across; 6".
- alba.** PRIM-173A. 40¢
- Waltonii.** PRIM-174. 50¢

- Violet fls, $\frac{1}{2}$ " ac in umbels; 2 ft; Tibet.
—Walleri. PRIM-176. 40¢
 Himalayan species; purple fls with white centers; 6"; HP.
—Wilsonii. PRIM-181. 40¢
 Purple fls, $\frac{3}{4}$ " ac; 2 ft; China; HP.
—yargogensis. PRIM-185. 50¢
 Deep purple; 4"; nodding umbels; Tibet.
—Vialii. P. IM-169. 50¢
 orn mental for winter use; HHA. Oz \$1.35.
—viscosa. PRIM-170. 50¢
 Rose-lilac, frag, fls, $\frac{1}{2}$ " ac; in umbels, late flowering; 8"; Alps; HP.
—Veitchii. PRIM-162. 40¢
 Fair sized flower heads of purple-rose blooms with clear yellow eye and yellow stamens; HP. $\frac{1}{2}$ Oz. \$2.75.
—Hardy Primula Mixed. PRIM-X. 30¢
 All hardy species.

- PRITCHARDIA.** (prit-CHARD-ee-uh)
—filifera. PRIT-1. 50¢
 Palm. 100 seeds \$3.00; 1,000, \$8.00.
—robusta. PRIT-3. 50¢
 Palm. 100 seeds \$3.00; 1,000, \$8.00.

- PROBOSCIDEA.** (pro-bo-SID-ee-ah)
 Unicorn Plant. Martyniaceae. Annuals and perennials with large, long stemmed lvs and large purple flowers and Okra-like fruits that can be used the same as Cucumbers. Sow the seed where they are to grow but in the North they would have to be started indoors in pots or boxes.

- Jussieu.** PROB-2. 40¢
 Creamy white to violet fls, 2" long; HA; transplants; space 2 ft.
—Mixed. PROB-X. 30¢
 Easy; showy yellow or rose fls; seed pods

- PROSOPIS.**
—lanceolata. see serrulata v.L.
—serrulata. PROS-1. 40¢
 (P. juliflora v. glandulosa) Mesquite. Sh to 9 ft or tr; Tex-Calif. Oz. \$1.00.

- PROTEA.** (PROH-tee-ah)
 Proteaceae. Trees, shrubs and stemless perennials from S. Af. Will not stand lower than 18 deg. F.; (IX); best rooted plants come from seed.

- Abyssinica.** PROT-1. 50¢
 From S Rhodesia; (10 seeds).
—angolensis. PROT-2. 50¢
 Collected in South Rhodesia.
—compacta. PROT-4. 50¢
 S. Af. sh; bracts pink to carmine.
—cynarioides. PROT-3. 40¢
 King of the P. By far the largest fls and handomest lvs; buds before opening, resemble Pine cones; 3-4 ft; looks much like a Rhododendron; plants from seed vary in color; some silvery white bracts, others deep pink.
—longiflora. PROT-11. 50¢
 Brightest of all P. In best types it is a vivid reddish pink; fls wide open when in full bloom; excellent cutflowers.
—mellifera. PROT-13. 50¢
 A popular species; one of the daintiest; bracts pink and glossy and translucent; 2 variations, one white or pale green, other deep pink or red; graceful; 9 ft; cups 5" deep, 3" ac; HHP.
—ne-lifolia. PROT-16. \$1.00
 Very popular; deep rose-pink bracts that curve over fls and are heavily fringed with dark brown, almost black 'feathers'; also white form. Seeds 10¢ each.
—Mixed. PROT-X. 25¢

Please do not order by the common name!

PRUNUS

(PROON-us). Rosaceae. Includes the stone-fruits: Plums, Peaches, Cherry-laurels. Ornamental flowering kind especially listed. The species are best from seed; if germination is slow, put seeds in open ground.

- Amygdalus.** PAUN-6. 40¢
 Almond. (P. communis). Oz. 50¢; lb.
—apeiaa. PAUN-9. 35¢
 Sh or small tr; Japan.
—Armeniaca. PRUN-9. 35¢
 Apricot. c. s. lb. \$1.50.
—avium. PRUN-12. 35¢
 Sweet Cherry. Lb. \$2.00.
—Buergeria. PAUN-17. 50¢
 Cherry to 25 ft; fls small black fr; (IV); or (III); Korea. Oz. 50¢; lb. \$3.50.
—campanulata. PAUN-18. 40¢
 Very pretty cherry to 25 ft; dark deep rose-red fls; S. Japan. Oz. 50¢; lb. \$3.50.
—cerasifera. PRUN-21. 25¢
 Cherry or Myrobalan Plum. Used as a stock in grafting. Special price in quantity lots. c. s. Oz. 50¢; lb. \$1.80; (25 lbs, \$20.00, not prepaid).
—atropurpurea. PRUN-21A. 30¢
 (Pissardii) Purple-leaved.
—glandulosa. PRIM-41. 35¢
 Flowering Almond. Sh; 3-5 ft; white to pink fls; red fruits; Japan.
—Grayana. PRUN-43. 40¢
 Similar to Padus; tr to 30 ft; fls in racemes, white; (III); JJap. Oz. 50¢; lb. \$3.50.
—domestica. PAUN-37. 30¢
 Common Plum. Lb. \$1.50.
—hisachiana. PRUN-44. 50¢
—incisa. PRUN-49. 50¢
 Small Cherry tr or can be grown as a bush; fls nodding, red and pink; (III); Japan. Oz. 75¢; lb. \$5.50.
—itoakura. PRUN-50. 50¢
—ascendens. PRUN-50S. 50¢
—japonica. PAUN-53. 40¢
 Flowering Almond. Dwarf fl-tree; fls 1" ac bluish or pink, sometimes double; red fr; China. Oz. 80¢; lb. \$5.00.
—kinkiensis. PRUN-52. 50¢
—koshiensis. PAUN-51. 50¢
—kuliensis. PAUN-54. 50¢
—Laurocerasus. PRUN-58. 35¢
 Cherry Laurel. Planted in the South; (VII). Oz. 75¢; lb. \$2.75.
—lusitana. PRUN-55. 35¢
 c. s. Oz. 50¢; lb. \$3.75.
—Mahaleb. PRUN-70. 35¢
 Ornament and stock for other Cherries. Lb. \$2.50. Prices subject to change on all grafting stock material; ask for prices in larger quantities; order early.
—Maximowiczii. PRUN-73. 40¢
 Cherry tr to 50 ft; fls whitish, $\frac{3}{4}$ " ac; (III); Manchuria. Oz. 90¢.
—Mume. PRUN-78. 40¢
 Hardy in the North. Lb. \$2.25.
—burgeo. PRUN-78B. 40¢
—mucracarpa. PRUN-78M. 40¢
—nipponica. PRUN-82. 40¢
 Cherry. Tr to 20 ft; white or pale pink fls; (III) Japan. Oz. 90¢.
—Padus. PRUN-85. 35¢
 European Bird Cherry. Ornamental. Oz 75¢; lb. \$5.00.
—Persica v. densa. PRUN-88D. 40¢
 Chinese Peach.
—Iceberg. PRUN-89B. 50¢
 A beautiful ornamental white flowered variety from California.
—Pseudocerasus serrulata. PRUN-94S. 40¢
 Small Cherry to 25 ft; fruit red; edible; China. Oz. 60¢.
—prostrata. PRUN-93. 35¢

Indian collected seed.

—**Sargentii**.

Handsome hardy tree; Japan. Oz. 60¢; lb. \$5.00.

—**serotina**.

Wild Black Cherry. (III). Oz. 60¢; lb. \$4.50.

—**serrulata**.

Japanese Cherry. White fls, 1½" across. Oz. 60¢; lb. \$3.50.

—**Lannesiana**.

A beautiful Japanese ornamental Cherry; pi-nk, fragrant fls. Oz. 75¢; lb. \$4.00.

—**spinosa**.

Blackthorn. Ornamental tr; 10 ft. c. s. Oz. 50¢; lb. \$2.00.

—**Ssiori**.

Racemose Cherry tr to 50 ft; white fls; (III); Asia. Oz. 90¢.

—**subhirtella**.

Racemoid Cherry. Small tr to 30 ft; fls in profusion, ¾" ac, pink to nearly white; (III); beautiful; Japan. Oz. 60¢; lb. \$4.00.

—**tomentosa**.

Bush Cherry. Bush or small tr; fr edible (IV); China. Oz. 90¢; lb. \$5.00.

—**virginiana**.

Choke-cherry. c. s. Oz. 40¢; lb. \$7.00.

—**vedogensis**.

Small white or pink fls; Japan. Oz. 60¢; lb. \$3.50.

—**Yamadei**.

—**yamaakura pubescens**. PRUN-128P. 50¢

PRUN-108. 35¢

PRUN-109. 35¢

PRUN-103. 40¢

PRUN-103L. 35¢

PRUN-111. 25¢

PRUN-112. 50¢

PRUN-114. 40¢

PRUN-119. 40¢

PRUN-123. 35¢

PRUN-129. 35¢

PRUN-128. 50¢

PRUN-128P. 50¢

PSEUDOLARIX.

(seu-doh-LA-raks)

Golden Larch. Deciduous; excellent trees; best in moist, well-drained soil and sheltered sunny position.

—**amabilis**.

(Kamferi); Golden Larch. Oz. 90¢.

PSEU-1. 35¢

PSEUDOTSUGA.

(seu-doh-TSEU-gah)

Pinaceae. Evergreen coniferous trees; resemble Abies in growth; best from seed.

—**isabellica**.

Japan. Oz. 90¢.

—**favifolia v. caesia**.

Douglas Fir. Bluish green lvs....Oz. \$3.00; lb. \$29.00.

—**maruca**.

Rocky Mt. form with smaller lvs and cones. Oz. \$3.00; lb. \$21.00.

—**viridis**.

Green lvs; large cones. Oz. \$3.00; lb. \$21.00.

PSEU-3. 50¢

PSEU-5C. 50¢

PSEU-5G. 50¢

PSEU-5V. 50¢

PSIDIUM.

(SID-ee-um)

Guava. Myrtaceae. Tropical trees and shrubs grown in the far South for ornament and their edible fruits, much used in jellies and preserves; easily grown any where oranges are grown.

—**guava**.

The common Guava; (IX).

—**Mixed**.

Many kinds.

PSID-4. 25¢

PSID-X. 25¢

PTELEA.

(TEE-lee-ah)

Rutaceae. Hop-Tree. Small shrubs and trees of N. Amer. Flowers in short clusters greenish white, followed by fruits; some shade; porous soil. Sow seed in fall best or early spring; germination is never good for many seeds are infertile.

—**trifoliata**.

Shrub or tree to 25 ft; N. Y-Fla; (IV). Oz. 50¢; lb. \$3.50.

PTL-4. 25¢

PTERITIS.

Excellent garden ferns.

—**nodulosa**.

PTEF-2. 50¢ yards

Ostrich Fern. For sun or shade; a very graceful fern, growing to 5 ft; a sight in the woods or wild garden where the sun gets thru the trees; set top of crown just above surface.

—**nodulosa**.

PLANTS: 55¢ each; 3 for \$1.50.

PTERIDIUM.

—**aquilum**.

PLANTS: 50¢ each; 3 for \$1.35.

PTERIS.

(TEE-ris)

Brake Ferns. Tender; those suitable for GH best in ordinary loam with some peat and a little sand; half shade.

—**cretica v. Wimsellii**.

One of the best GH or house ferns; not too dry atmosphere.

—**albo-Vineata**.

—**cristata**.

—**Rivertoniana**.

—**ensiformis**.

Queen Fern. Warm GH; 15"; variable.

—**longifolia**.

—**quadrifurcata**.

—**Parkeri**.

—**argyreaea**.

Segments with whitish bands; good GH.

—**Roweri**.

—**serrulata cristata nana compacta**.

—**tremula**.

—**umbrosa**.

PTER-8W. 40¢

PTER-8A. 40¢

PTER-8C. 40¢

PTER-8R. 40¢

PTER-11. 50¢

PTER-16. 50¢

PTER-22. 50¢

PTER-21. 50¢

PTER-24A. 75¢

PTER-23. 50¢

PTER-24N. 50¢

PTER-26. 50¢

PTER-29. 50¢

PTEROCARYA.

(tehr-oh-CAY-ree-uh)

Wing-Nut. Juglandaceae. Deciduous trees of Asia; very fast growers. Seeds are best means of increase.

—**fraxinifolia**.

Tall tree; fruits in racemes to 2 ft long; Caucasus.

—**ehde-iana**.

Japanese tr to 100 ft. Oz. 80¢.

PTERY-2. 50¢

PTERY-7. 40¢

PTEROCEPHALUS.

(tehr-oh-SEFF-al-us)

Dipsaceae. Draba-like perennials grown in the rockery; they are native of the Pyrenees; 2-3 inches high; mat-like growth.

—**parnassi**.

Spreading HP; 3"; purplish pink fls, 1" across; R-G.

PTERC-3. 50¢

PTEROSPERMUM.

Sterculaceae. Trees and shrubs of tropica Asia.

—**chelinoides**.

India. Oz. \$1.25.

PTEX-5. 40¢

PUERARIA.

(peu-er-AY-ri-ah)

—**Thunbergiana**.

Kudzu Vine. Rank growing vine with violet fls in July; grows to 60 ft; hardy only into (VI) zone. Oz. 60¢; lb. \$3.50.

PUER-3. 50¢

PUMELIA.

—**humilis**.

Rice Flower. Clusters of white fls; light green foliage; shrub to 4 ft; Australia.

PUME-4. 30¢

PUNICA.

Punicaceae. Trees and shrubs hardy in (VII) zone; ornamental and widely grown for its edible fruits.

—**Granatum**.

Pomegranate. 20 ft; orange-red fls; 1½" ac; (IX). c. s. Oz. 50¢; lb. \$4.00.

—**nana**.

A dwarf form suitable for GH or in

PUNI-1. 30¢

PUNI-IN. 30¢

PURSHIA.

(PURSH-ee-uh)

Antelope-bush. Rosaceae. Western native shrubs with small yellowish flowers, probably best for its clustered leaves. It grows in arid lands from Ore. to Calif.

—**tridentata.**

Deciduous shrub to 6 ft; silvery leaves; (IV).

PURS-1. 25¢**PUTTERLICKIA.**

South African shrubs.

—**pyracantha.**

Ornamental fruits; 5 ft; TSh.

PUTT-12. 50¢**PUYA.**—**a. pestr.**—**raimondii.**—**spatacea.**

(PEW-yuh)

PUYA-1. 60¢**PUYA-12.** 60¢**PUYA-16.** 60¢**PYCNOSTACYS.**—**urticifolia.**

Bright blue fls in dense spikes; 5 ft; GH; (X); TP.

PYCN-5. 40¢**PYRACANTHA.**

(pye-ruh-KANTH-uh)

Rosaceae. Fire-thorn. Thorny evergreen shrubs related to Crataegus; ornamental; hedges; showy fruits; (X); seed best means of increase for species.

—**angustifolia.**

Sh to 12 ft; China. c. s. Oz. 50¢; lb. \$5.00

—**atalantioides.**

Showy fruits; white fls; 10 ft; HSh; (IV).

—**coccinea.**

20 ft; S. Europe.

—**Lalandii.**

More vigorous form with orange-red fruits. Oz. 90¢; lb. \$3.50.

—**crataegoides.**

Chinese Firestone. To 10 ft; white fls in many corymbs; China; (VIII).

—**unnaensis.**

(VIII). c. s. Oz. 50¢; lb. \$5.00.

—**crenata.**

Nepal Firethorn. To 20 ft; (sym. Cotoneaster and Crataegus).

—**taliensis.**

Yellow fruited Tare-thorn.

—**lalandei.**

(coccinea) 1/2 Oz. \$1.50.

—**pannosa.**

PYRETHRUM: Chrysanthemum coccineum

PYROLA.

Pyrolaceae. Shinleaf. Used in wild garden or woods likeW intergreen; hardy.

—**elliptica.**

10 inches; white fls; N. Amer.

PYRUS: see Malus.

PYRA-10T. 30¢**PYRA-19.** 30¢**PYRA-20.** 40¢**QUAMOCLIT**

(KWAM-oh-kilt) Star Glory. Convolvulaceae. Annual and perennial twining vines, grown as tender annuals in the North. They are used mainly for rapid growing climbers, thriving in a good light soil and in full sun.

—**coccinea.**

Star Ipomoea. 10 ft; TA.

—**hederifolia.**

Scarlet fls with yellow throat; 10 ft; HHA.

Ivy-leaved type.

—**lobata.**

Crimson fls fading to a pale yellow; 20 ft; TP.

—**pennata.**

Cypress Vine. Showy fls in following colors; vine to 20 ft; TA.

—**White.**—**Pink.****QUAM-1.** 25¢**QUAM-1H.** 25¢**QUAM-2.** 25¢**QUAM-2.** 25¢**QUAM-2.** 25¢**QUAM-2.** 25¢**QUAM-2.** 25¢**QUAM-2.** 25¢**QUAM-2.** 25¢**QUAM-2.** 25¢**QUAM-2.** 25¢**QUAM-2.** 25¢**QUAM-2.** 25¢**QUAM-2.** 25¢—**Scarlet.**

Oz. 70¢.

—**Solei.**

Cardinal Climber. Red fls with white throat, 2" long; vine to 20 ft; TA. Oz. 90¢; lb. \$6.50.

—**sloteri hybrids.**—**Hearts and Honey.**

All-day bloomer with color ranging from ping-orange to pinkish red and rose-pink.

—**Mixed.**

Above species and varieties.

QUAM-4S. 25¢**QUAM-6.** 25¢**QUAM-6H.** 25¢**QUAM-7HH.** 25¢**QUAM-X.** 25¢**QUERCUS.**

Oak. Fagaceae. Plant seed in the fall or stratify if planted in spring; if seed is not fresh, soaking in water for 24 hours will help.

—**acuta.**

Japanese Ev. Gr. Oak. Small tree; Japan.

—**borealis.**

Northern Red Oak. To 80 ft. Lb. \$1.00.

—**Cerris.**

Turkey Oak; 100 ft. Lb. \$1.25.

—**dentata.**

Tree to 80 ft; Japan, China.

—**Ilex.**

Holly or Holm Oak. 60 ft. T.H. 90¢.

—**palustris.**

Pin Oak. 80 ft. Lb. \$1.90.

—**Robur.**

English Oak. (pedunculata) 80 ft. Lb. \$1.00.

—**serrata.**

(Q. glandulifera) Tr. to 50 ft; Japan.

—**Sin.**

Cork Oak. 60 ft; (V). Lb. \$1.25.

—**Quercus.**

Solanaceae. Suitable for dry places; rocky subjects.

—**lobata.**

(Physalis lobata) Purplish fls, 1 1/4" ac; Kans; HP. 1/2 Oz. \$1.00.

—**Quercus.**

Combretaceae. Climbing shrubs

—**indica.**

Rangoon-Creeper. Rambling; frag. fls.

—**Quercus.**

(knis-KWAY-lis)

—**Quercus.**

(ray-MOND-ah)

Gesneriaceae. Small plants making flat rosettes of hairy basal leaves; stems 3-4 inches long, bearing several 4-5 pointed flat flowers, resembling Saintpaulia, to which family it belongs; fully hardy with some protection; seedlings develop slowly.

—**Nathaliae.**

Lavender-blue with golden centers; Serbia; HHP.

—**Myconii.**

Purple fls, 1" across; 3 inches high; HHP.

—**rosea.**

Not too high temperature in germinating; expose to the light.

—**pyrenaica: see Myconii.**

—**Mixed.**

RAMO-5. 50¢

RAMO-7. 50¢

RAMO-7R. 50¢

RAMO-X. 30¢

RANUNCULUS

Buttercup, Crowfoot. Ranunculaceae. A very large genus and popular in flower gardens; those grown mainly as GH plants are in R. asiaticus. They are easily grown; C-23 sow fresh seeds in pans of sandy soil; cold frame or cool GH.

—**acutifolius.**

White fls, 1" across; 3 ft; HP

—**asiaticus.**

Turban or Persian Buttercup. Bright yellow fls, 1 1/2" ac; 1 1/2 ft.

RAN-2. 30¢

RAN-10. 30¢

GIANT DOUBLE FLOLIST STRAIN.

Reselected Asiaticus superbissimus. Extra fine strain of large flowered double hybrids in golden yellow, sulphur-yellow, scarlet, crimson, lilac and many other soft shades. Oz. \$1.90; 4 oz. \$6.00.

RAN-31S. 40¢

—californicus. RAN-13. 25¢

Yellow fls; 2 ft; Ore; HP.

—calandrinoides. RAN-14. 40¢

Winter flowering; white flushed pink, 2" across; silver leaves; HP.

—gramineus. RAN-27. 40¢

Grassy lvs; bright yellow fls, 1" ac; 1 ft; deciduous; spring flowering; good RG plant; Morocco.

—hirtellus. RAN-30. 25¢

Variable species; yellow, white or pale rose fls 2" ac; HP.

—hybrids. RAN-31F. 25¢

French giant hybrids.

—lappaceus. RAN-33. 30¢

RAN-34. 25¢

—lindleyi. RAN-35. 30¢

—lyallii. RAN-67. 25¢

Showy species; white fls; 2 ft; N. Z. TP.

—superbus. RAN-X. 25¢

In shades of pink, white, red, yellow, rose; takes 35 days to germinate; HP.

—Mixed.

RAPHIOLEPSIS. (raf-ee-OL-ep-iss)

Rosaceae. Evergreen shrubs grown in the South; they have shiny leathery leaves; white or pink flowers in racemes or panicles, followed by purple fruits. Seeds sown during Feb. usually germinate freely; fall planting so as to get winter frosts is helpful.

—indica. RAPH-3. 50¢

India-Hawthorne. Chinese sh to 5 ft; white or pinkish fls in loose glabrous panicles; 100 seeds to ounce.

—umbellata v. ovata. RAPH-6V. 35¢

Yeddo Hawthorne. 12 ft; Japan. Oz. 75¢

RATHURNIA.

Cactaceae. Two species from W. Mexico.

—arizonensis. RATH-3. 50¢

Columnar to 10 ft; 3" diam; fls scarlet, 4" long.

RATIBIDA.

Compositae. Cone-flower. Formerly Lappachys. Per. with large globose or cylindric disks; border or bedding.

—pinnaia. RATI-5. 35¢

5 ft; rays yellow; 3" long; HP.

REBUTIA.

(reb-BEW-tee-uh) (WS, CG) Low growing, small rounded plants; fls in shades of red, orange, yellow and violet; free-flowering; full sun; plenty of water spring-Oct; very little during the winter; more leaf mould and old manure, plenty of grit; easy from seed.

—Blossfeld Expedition. REBU-2. 50¢

Probably contains new species.

—mimacula. REBU-14. 75¢

Bright scarlet fls in spring; sun.

—Fleischmannii: see Aylostera.

—pseudominacula. REBU-17. 40¢

Fls brilliant red, 1¼" long; N. Argentina.

—senilis. REBU-20. 50¢

REBU-24. 40¢

—violaciflora. Globosa, ¾" diam; rose-violet fls; 1¼" ac; small neat, beautiful; easy and free-flowering; N. Argentina.

—xanthocapa. REBU-26. 50¢

—salmonea. REBU-26S. 75¢

RESEDA: see **MIGNONETTE.**

RHAMNUS.

Seeds best means of increase.

—Alaternus. RHAM-1. 30¢

Sow in fall or stratify; 20 ft; (VIII). c. s.

Oz. 50¢; lb. \$3.00.

—cathartica. RHAM-6. 30¢

c. s. Oz. 50¢; lb. \$3.00.

—coccinea. RHAM-9. 25¢

Red-berry. 3 ft; evergreen; (VIII).

—ilicifolia. RHAM-9L. 30¢

Holly-leaf Red-berry. (VIII).

—daurica. RHAM-8. 30¢

Dahurian Buckthorn. To 30 ft; Siberia.

c. s. Oz. 50¢; lb. \$4.50.

—Frangula. RHAM-14. 30¢

Alder Buckthorn. 12 ft; (V). c. s. Oz.

50¢; lb. \$5.00.

RHEUM. (REE-um)

Rhubarb. Polygonaceae. Perennials with stout basal leaves and with the flowers in clusters or racemes at top of long stems. Used for bold effect in the border.

—acuminatum. RHEM-1. 30¢

Stems and flower dark purple; 2-3 ft;

Himalayas; HP.

—nobile. RHEM-8. 25¢

Himalayan Rhubarb. Pretty when it is young with its white lvs; can be eaten

like Rhubarb; 4 ft; HHP.

—Rhaponticum. RHEM-12. 30¢

Pie-Plant. Also listed in with the Herbs.

RHEXIA. (REX-si-ah)

Melastomaceae. Meadow Beauty. Perennials native of N. Amer; flowers are terminal solitary or in cymes, followed by fruits. Border or wild garden; moist places.

—mariana. RHEX-5. 25¢

Golden stamens surrounded by delicate,

pale pink petals; 2 ft; HP; (V).

—virginica. RHEX-9. 25¢

Dandy for moist acid places; 20"; roots tuberous; deep magenta-pink fls, 1½" ac; easy from seed sown in peaty soil as soon as ripe; scatter seed; seed held should be stratified or it take a year to germinate.

RHIGOZUM.

—obovatum. RHIG-12. 40¢

Bright yellow fls; 8 ft; TSh; S. Africa.

RHINEPHYLLUM.

—Comptonii. RHIN-3. 50¢

RHIPOGONUM.

Lilaceae. Cl. sh. of Aust. and N. Z.; fls borne in racemes; (X).

—scandens. RHIP-9. 40¢

Greenish fls, ¼" ac, in racemes, 6" long;

bright red berries; N. Z.

RHODANTHE: see *Helipterum Manglesii*.

RHODODENDRON

(roh-doh-DEN-dron). Ericaceae. They can be sown inside in January or March, in a mixture of sand, peat and a little loam; cover seed lightly with our milled sphagnum and remove glass as soon as germination starts.

CULTURE: The growth of seedlings is best if the seed is sown in heat, about 65 degrees Fah. in January or February, thinly on fine peat, covered with glass and shaded; germination takes about 1-3 weeks, and as soon as seedlings appear, air is admitted gradually.

When the cotyledons are well developed they are uncovered completely. Then prick off into a mixture of peat, with a little loam and coarse sand added. By July or August they should be about 1-3 inches high and ready for planting out in frames, protecting them from frosts. The secret of the whole process being to maintain rapid growth continuity for the first year or two. The soil must be kept slightly on the acid side and rain water is to be preferred to regular tap water.

The following Rhododendrons are from a well known English collection.

The species offered breed true to type with a few variations, sometimes, in the plants produced.

As to hardiness, those marked 'A' will undoubtedly grow in our zone IV. 'B' are also hardy but these will require some shade to obtain best results. 'C', probably should be planted in zone V or VI, but require shelter if they are liable to have cold spells.

- Arthur Osborne.** RHOD-W1. 60¢
Dark scarlet; (B); AM 1933; very good.
- Azor.** RHOD-W3. 60¢
Soft salmon; (B); AM; 1933; very good.
- Brittania.** RHOD-64. 50¢
Bright cream-red; (B); AM 1921; good.
- Cornish Cross.** RHOD-W7. 60¢
Rose-pink; (C); very good.
- Corona.** RHOD-W8. 60¢
Coral-pink; (C); AM; very good.
- Countess of Derby.** RHOD-W9. 60¢
Rose-pink; (B); FCC; good.
- Doncaster.** RHOD-W10. 60¢
Scarlet-crimson; (B); good.
- E'speth Sloucock.** RHOD-W11. 60¢
Scarlet; (B); good.
- Fireball.** RHOD-W12. 60¢
Bright red; (B); AM; good.
- Essex Scarlet.** RHOD-W13. 50¢
Deep crimson-scarlet; (B); AM; good.
- Garnet.** RHOD-W14. 50¢
Deep salmon-rose; (C); AM; good.
- Gills Gloriosa.** RHOD-W15. 60¢
Pink; (D); AM; good.
- Helen Fox.** RHOD-W16. 60¢
Deep crimson-scarlet; (E); very choice.
- Lady Longman.** RHOD-W51. 50¢
—**Loderi King George.** RHOD-W19. 50¢
(C).
- Koodoo.** RHOD-W20. 50¢
(C).
- Pinky.** RHOD-W22. 50¢
(C); scented.
- Sir Joseph Hooker.** RHOD-W23. 50¢
(C).
- Venus.** RHOD-W24. 50¢
(C).
- Mrs. Charles Pearson.** RHOD-W26. 50¢
Blush mauve, spotted; (B); AM.
- Mother of Pearl.** RHOD-W27. 60¢
Blush turning snow; (B); AM; very good.
- Mrs. Lionel de Rothschild.** RHOD-W28. 50¢
White with red spot; (B); AM; good.
- Mrs W. C. Slocock.** RHOD-W29. 50¢
Apricot pink shaded; (B); AM; good.
- Penjerrick.** RHOD-W30. 60¢
White, creamy yellow; (C); AM; extra.
- Polar Bear.** RHOD-W32. 60¢
White, scented; (C); FCC; extra good.
- Rosy Bell.** RHOD-W34. 50¢
Old rose; (C); AM; good.
- Rose Perfection.** RHOD-W35. 50¢
Rose-pink; (B); FCC; good.
- Shilsonii.** RHOD-W36. 60¢
Blood-red; (C); AM; very good.
- Sir Charles Lemon.** RHOD-W39. 60¢

White; (D); very choice.

- Sarita Loder.** RHOD-W40. 60¢
Pale salmon-pink; (C); AM 1934; good.
- Tally Ho.** RHOD-W41. 06¢
Bright scarlet; (D); FCC, 1933; very good.

The hybrids, naturally, do not breed exactly true to the parent plant, as some variation can be expected towards either of the parents of the original cross. Naturally some should prove exciting and others may not be so interesting. It is the practice of many Rhododendron growers to rogue the more vigorous plants, as it has been found that the better colors result from the weaker seedlings as is also the case in other flowers such as the Stocks and Petunias.

SYMBOLS USED: A.M. and FCC (first class certificate) are from the RHS in England.

- Albrechtii.** RHOD-16. 50¢
- arboreum, Mixed Varieties.** RHOD-30. 50¢
Oz. 80¢; lb. \$7.00.
- Augustinii.** RHOD-39. 50¢
- Auriculatum.** RHOD-41. 50¢
- auritum.** RHOD-42. 50¢
- Azor.** RHOD-45. 50¢
Pink, spotted with yellow; 20 ft.
- barbatum.** RHOD-49. 50¢
- brachyanthum.** RHOD-57. 50¢
Pale yellow to greenish yellow; 5 ft;
- Yunnan.**
- caeruleum.** RHOD-64. 50¢
- Campylocarpum.** RHOD-74. 50¢
- carolinianum.** RHOD-83. 50¢
Pale rose-purple to white; 6 ft.
- cinnabarinum.** RHOD-96. 50¢
Brick-red inside, orange-yellow outside 10 ft; May-June; Himalayas.
- crassum.** RHOD-104. 50¢
White funnellform fls; 20 ft; Himalayas.
- decorum.** RHOD-117. 50¢
White to pinkish, 2' across; China.
- desquamatum.** RHOD-123. 50¢
Pale pinkish purple; 30 ft; N. Burma.
- Disprepes.** RHOD-130. 50¢
- Edgeworthii.** RHOD-140. 50¢
White fls, often tinged bluish, 4" ac, bell-shaped; rare; 6 ft; Himalayas.
- elaeanoides.** RHOD-141Y. 50¢
Yellow fls; smallest species; very scarce; 9" Himalayas.
- Falconeri.** RHOD-146. 50¢
Very large lvs; white fls, densely placed on large heads.
- Fargesii.** RHOD-147. 50¢
White or pinkish, bell-shaped fls; 15 ft; China.
- ferrugineum.** RHOD-150. 50¢
Pink; 3 ft; July-Aug. Oz. \$1.00; lb. \$12.00.
- Fictolactium.** RHOD-151. 50¢
- Fortunei.** RHOD-161. 50¢
- fuacens.** RHOD-166. 50¢
Bright blood-red fls with black spot at base, 1½" ac; 8 ft; Himalayas.
- Ghent Hybrids.** RHOD-293G. 50¢
Beautiful hybrids much grown by nurseries; will be pleased to quote quantity prices if interested.
- grande.** RHOD-177. 40¢
(argenteum) Tr to 40 ft; rose to white bell-shaped fls; Himalayas. Oz. 80¢; lb. \$10.00.
- Giffithianum v. Aucklandii.** RHOD-129A
Pkt. 50¢. 8 ft; fls 8" ac, white fragrant. Largest and most handsome of genus. Oz. \$2.00.
- Griersonianum.** RHOD-178. 50¢
Rose with darker spots; 6 ft; China.
- hybridum.** RHOD-198. 50¢
Made up of hybrid seed from all sources. Oz. 90¢; lb. \$8.00.

- hippophaeoides.** RHOD-191. 50¢
Lavender-blue; bell-shaped; 5 ft; China.
- hirsutum.** RHOD-19. 50¢
3 ft; pink, funnelform fls, ½" ac; June.
Oz. \$1.25; lb. \$13.00.
- impeditum.** RHOD-200. 50¢
Light purplish blue; 20 ft; Yunnan.
- Johnstoneanum.** RHOD-206. 50¢
- Kaempferi.** RHOD-250K. 50¢
Red to pink; 3 ft; (R. obtusum K).
- Knapp Hil Hybrids.** RHOD-293K. 50¢
- Kuhnii.** see obtusum v amoenum.
- Luscombranum.** RHOD-236. 50¢
Hybrid of Fortunei and Thompsonii;
pink fls.
- maximum.** RHOD-249. 50¢
Large sh or tr; very hardy; pale rose
fls; good in masses.
- molle.** RHOD-255. 50¢
Japanese Azalea. Golden yellow; mixed
varieties.
- across; (VIII).**
- micranthum.** RHOD-252. 50
White, bell-shaped fls; 8 ft; China.
- neriifolium.** RHOD-270. 50¢
- oleifolium.** RHOD-328. 50¢
- obtusum Arnoldianum.** RHOD-250A. 50¢
Rose or red; 3 ft; hyb. between amoenum and Kaempferi.
- amoenum.** RHOD-250K. 50¢
(Kurne Azalea).
- occidentalis.** RHOD-280. 50¢
Western Azalea. Pink and yellow, 2"
- oreotrophes.** RHOD-290. 50¢
Rose-lavender; 7 ft; China.
- Maddenii.** RHOD-244. 50¢
Pure white fls, tinged blue; 3½" ac; 8 ft;
Himalayas.
- polylepis.** RHOD-308. 50¢
Purple spotted with yellow; 10 ft; China.
- pumicum.** RHOD-309. 50¢
Purple, spotted brown; 10 ft; can supply
it also in mixed varieties at Oz. \$1.00; lb.
\$12.00. This is generally used for under-
stock for Rhododendron varieties and the
hybrids.
- pubescens.** RHOD-319. 50¢
Bright rose; 4 ft; China.
- racemosum.** RHOD-328. 50¢
Broad bell-shaped pink fls; 6 ft; China.
- ravum.** RHOD-334. 50¢
Rose; 4 ft; Yunnan.
- rubiginosum.** RHOD-347. 50¢
Pinkish blue, spotted brown; tree to 30
ft; Yunnan.
- Smirnowii.** RHOD-380. 50¢
Rose, bell-shaped; 18 ft; Caucasus.
- sutchuense.** RHOD-392. 50¢
Pink or lilac, spotted purple; 10 ft; China
- tethroplum.** RHOD-397. 50¢
- Thomsoni.** RHOD-399. 50¢
Dark salmon-pink, interior
pinkish white.
- timeum.** RHOD-400. 50¢
- triflorum.** RHOD-405. 50¢
Light yellow, spotted green; 8 ft; Him-
alayas.
- Vasevi.** RHOD-415. 50¢
- yunnanense.** RHOD-440. 50¢
White or pinkish, spotted red; China.
- Mixed Rhododendrons.** RHOD-X. 50¢
This is a very choice collections of both
Rhododendrons and the species usually
listed under Azaleas; there are many addi-
tions other than those listed above.

RHODOHYPOXIS. (ray-doh-hy-POX-is)
Amaryllidaceae. Pretty little bulbous
plants from S. Africa and very rare in cul-
tivation. They make a dense turf of short
grassy leaves, with flat 6-pointed stars, ¾"
across; moist but well drained sandy soil,
half shade and will stand down to 20 degrees
F. Bulbs wintered over in the cellar should

not be allowed to dry out.

- bauri.** RHOX-1. 50¢
Brilliant rose or white fls; makes a good
pot plant.

RHODOTYPOS. (roh-doh-TYE-pos)
Rosaceae. Decid. shrubs from Orient;
very ornamental.

- leirape-a.a.** RHOT-2. 50¢
(kerriodes) Jethead. (IV); fls 2" ac;
May-June. Oz. 85¢; lb. \$5.50.

RHUS. (RUS)

- Seeds germinate freely.
- c-1-e.s.s.** RHUS-4. 40¢
- ovata.** RHUS-20. 40¢
Shrub. Ev. sh to 10 ft; light yellow
fls in short dense racemes; fr. dark red;
(X); Oz. 50¢; lb. \$5.00.
- cotinus.** see *Cotinus Cogglygia.*
- ve-iciflua.** RHUS-32. 40¢
Oz. 50¢; lb. \$3.50.

RIBES.

- Currents, Gooseberries. Saxifragaceae.
- sanguineum.** RIBU-51. 35¢
To 12 ft; red fls; bluish black frs; B. C.

RICINUS. (RISS-in-us)

- Caster Bean. Euphorbiaceae. A single
species, variable and distributed over tropi-
cal regions. They are planted for foliage
effect in gardens; start indoors in pots, trans-
planting them to their beds after all danger
of frost has passed; give good rich soil.

R. COMMUNIS:

- borboniensis arboreus.** RIC-1B. 25¢
Red stems; glaucous foliage; 10 ft.
- cambodgensis.** RIC-1C. 25¢
Dark foliage and blackish purple stems;
10 ft. Oz. 75¢; lb. \$3.00.
- Gibsonii.** RIC-1G. 25¢
Dark foliage with metallic luster; dwarf
form; 8 ft. Oz. 75¢; lb. \$2.00.
- Red Spire.** RIC-1R. 25¢
Showy red stemmed variety; 10-15 ft.
Oz. 75¢; lb. \$2.00.
- sanguineus.** RIC-1S. 25¢
Red leaves; 10 ft. Oz. 75¢; lb. \$2.00.
- zanzibarensis.** RIC-1Z. 25¢
Bright green leaves with white veins; 15
ft. Oz. 75¢; lb. \$3.00.
- Mixed.** RIC-1X. 25¢
Oz. 50¢; lb. \$1.50.

RIVINA. (riv-VYE-nuh)

Phytolaccaceae. Grown in the GH or out
doors for their berry-like fruits.

- humilis.** RIVI-4. 40¢
Rouge-Plant. 3 ft; white or rosy fls;
tropical; (IX).

ROBINIA. (roh-BIN-ee-uh)

Species best increased from seed.

- Pseudo-acacia.** ROBI-16. 30¢
False Acacia. Soak seed in hot water;
best sown in spring. Oz. 60¢; lb. \$2.00.
- Bessoniana.** ROBI-16B. 30¢
Oz. 50¢; lb. \$2.10.
- ine-inis.** ROBI-16N. 30¢
Oz. 50¢; lb. \$2.20.
- spectabilis.** ROBI-16S. 30¢
Oz. 50¢; lb. \$2.30.
- viscosa.** ROBI-18. 30¢
Clammy Locust. Sow seed in the spring.
Oz. 60¢; lb. \$2.75.

This Catalog goes to nearly every country
in the world; its the most complete Catalog
published anywhere—costs but 25¢ prepaid.

ROMNEYA. (ROM-nee-uh)
 Locust. Leguminosae. They are hardy in the North. Start seeds in the spring.
Coulteri. **ROMN-1. 40¢**
 Matilija Poppy. White, 6" across; 8 ft; (VII). Oz. \$2.00.

ROMULEA. (rom-YEW-lee-uh)
 Iridaceae. Crocus-like bulbs in purple and yellow; closely related to the Crocus but not real hardy; they are not common in the U. S. A.

bulbicodium. **ROMU-1. 30¢**
 Pale lilac, yellow centers, tinted golden brown.
Hartungii. **ROMU-2. 30¢**
 From South Africa.
rosea. **ROMU-9. 35¢**
 Red-lilac fls with yellow throat; lvs 1 ft long; S. Af.

ROSA

Rose. Rosaceae. The seed of the species should be planted in the fall so that they can lay over winter in the soil, when they usually germinate in the spring. Hold the seed bed for two years at least for late germinating seeds. I would appreciate hearing from any one growing the species not listed here; we are growing these in our own planting and missing species will be appreciated. Keep seed beds shaded and moist during summer; er; be sure the seed is covered during summer months.

Try planting 5-10 seeds in a hill direct to garden, in the fall, and cover with a coffee can (punch a few holes in bottom); push can into soil almost to bottom to keep the mice from the seed; remove early in sp.

acicularia. **ROSE-1. 35¢**
 Deep rose, fragrant; hardy wild Rose; 3 ft. c. s. Oz. 50¢; lb. \$1.75.

Brunonii. **ROSE-23. 50¢**
 Himalayan Musk R. Semi-cl; white frag fls, 2" ac; yellow stamens; not hardy N.

canina. **ROSE-28. 30¢**
 Dog Rose. 10 ft; Oz. 60¢.

ca-olina. **ROSE-28. 30¢**
 Masses of 3" fragrant pink fls followed by glossy red fruits holding on into the winter; 6 ft; Me. to Fla.

cericea. **ROSE-34. 30¢**
 Himalayan Wild Rose. Pretty single fls; white.

gal-ica v. gr. fl. **ROSE-52G. 35¢**
 French Rose Common in old Rose gardens; 4 ft; pink or crimson fls. 3" ac; Eu.

Eg-anteria. **ROSE-44. 50¢**
 (rubiginosa) Sweet Brier. 8 ft; pink fls, 2" across.

h-chtownensis. **POSE-68. 40¢**
 Common fls; bright fruits; a hybrid.

horrida. **ROSE-70. 25¢**
 (coccinea) Dwarf bush; fls 1" ac; white; Eu.

M-vesii. **POSA-104. 50¢**
 Deep red fls. 2½" ac; 10 ft; dark orange-red fr; China.

Fa-nosii. **ROSE-104F. 50¢**
 Deep pink fls and large crimson hips or fruits; easy.

multiflora. **POSE-106. 20¢**
 Japanese Rose. 8 ft; (II). c. s. Oz. 50¢; lb. \$3.50

ana-perpetua. **ROSE-105P. 355¢**
 100 berries \$1.50; 1,000, \$6.50.

nutkana. **ROSE-112. 30¢**
 Rose fls; 5 ft; to Alaska.

pendula. **POSE-118. 35¢**
 Rose fls in corymbs; 3 ft.

pomifera. **ROSE-127. 35¢**

(villosa) 6 ft; pink fls, 2" ac; hardy in N; (III).

-rugosa. **ROSE-131. 35¢**
 Red or white, 4" across. Oz. 75¢.

-pimpinellifolia. **ROSE-141. 40¢**
 (spinissima) Scotch Rose. White, pink or yellow.

-a. a. ca. **ROSE-141A. 35¢**
 White; Minn.

-polyantha. **ROSE-126. 40¢**
 Multiflora type. Oz. 65¢; lb. \$5.00.

-nana. **POSE-126N. 40¢**
 Dwarf strain. 100 seeds 75¢; 1,000, \$5.00.

Flowers in 7 weeks after sowing; 800 seeds to the ounce.

-rubrifolia. **ROSE-130. 40¢**
 One of the loveliest of the Rose species; comes true from seed; thornless; deep red fls, 1½" ac; corymbs; 6 ft; (IV).

-setigera. **POSE-134. 35¢**
 Prairie Rose. Climber to 15 ft; pale rose.

-tomentosa. **ROSE-150. 35¢**
 Pink and white fls; 6 ft.

-Woodsi. **ROSE-158. 35¢**
 Pink; very hardy; 6 ft; (I). c.s. Oz. 80¢.

-Wichu-atana. **POSE-158. 40¢**
 Prostrate evergreen Rose; fragrant white fls 2" ac; hardy. Oz. 75¢; lb. \$3.00.

-Mixed. **ROSE-X. 30¢**

ROSELLA: see **Hibiscus Sabbariffa.**

ROSEMARY: see **Rosmarinus.**

ROSEOCACTUS. (roh-zee-oh-KAK-tus)
 Cactaceae. Formerly with Ariocarpus; very succulent plants with turnip-like root.

-Kotschubeyanus. **ROSC-5. 40¢**
 Plant 2" ac; fls light purple, 1" long.

ROSMARINUS. (ross-muh-RYE-nus)
 Rosmary. Labiatae. Hardy evergreen shrubs grown for both ornament and as a garden herb, especially its oil; HP to (V).

-officialis. **ROSM-1. 25¢**
 Light blue fls; 6 ft; April-May; (V); do best in limy soil. ½ Oz. \$1.50.

ROYSTONEA. (roy-STOH-nee-uh)

-regia. **ROYS-5. 75¢**
 \$3.50; 1,000, \$15.00.

RUBUS. (ROO-bus)
 Rosaceae. Brambles; Raspberries, etc.

-Australis. **UBU-8. 35¢**
 White fls; fruit reddish orange; N. Z.; later climber found on trees.

-ellipticus. **RUBU-18. 35¢**
 Himalayan Raspberry. Fruits orange and very sweet; large fruits; try these for seedlings.

-fruticosus. **RUBU-23. 35¢**
 The shrubby blackberries of Europe.

-idaeus. **RUBU-28. 40¢**
 European Raspberry.

RUDBECKIA

Coneflower. Compositae. Conical shaped disks of daisy-like flowers; thrive in any ordinary soil in sun or partial shade. Seed can be planted early indoors or later outside as far perennials. They are especially nice in border or cutting. (rud-BEK-ee-uh).

-amplexicaulis. **RUD-1. 25¢**
 Yellow petals, brownish disk; 2 ft; nice in the border; HA.

-hicolor. **RUD-2G. 20¢**
 Double golden flowers; HA.

-serotina. **UD-2RS. 25¢**
 Large fls in 2 colors; golden yellow with red centers; in corymbs; flowering broad-

cast in waste places. Oz. 50¢.

- splendens. RUD-2S. 20¢
 —graciliora. RUD-5. 20¢
 Coneflower. Oz. 60¢.
 —hirta. RUD-6. 20¢
 Black-Eyed-Susan. Biennial but often annual; 3 ft; rays golden yellow, disks purple-brown, $\frac{3}{4}$ " across; June till frost.



RUDBECKIA—AUTUMN FROSTS

- Autumn Frosts. RUD-6F. 30¢

NEW. Large single fls in many beautiful shades of bronze-red, copper, orange, lemon and yellow with jet-black centers; long stemmed, long lasting and fine cut; can be flowered the 1st year; 2-2½ ft; HP.

- Autumn Tints. RUD-6A. 20¢

Golden yellow petals, dark disks; 2 ft.

- Star of Kelvedon. RUD-6K. 20¢

Golden yellow rays, dark brown disk.

- My Joy. RUD-6M. 25¢

A pure golden yellow with dark disks; 2½ ft; popular German variety.

- Starlight. RUD-6S. 30¢

Semi-double; primrose-yellow to mahogany; many striking bicolors. ¼ Oz. \$3.00.

- Mixed. RUD-6X. 20¢

- laciniata. RUD-7. 35¢

Head 4" ac, rays yellow, drooping, disks greenish yellow; 12 ft; HP.

- purpurea; see Echinacea purpurea.

- speciosa, Newma. RUD-17N. 25¢

Pinkish rays, large dark cone; petals hang downward giving it an attractive effect; 2 ft; HP.

- Rudbeckia Mixed. RUD-X. 20¢

RUE: see Ruta.

- RULINGIA. RULI-8. 50¢

—densiflora. 3 4 ft. Australia.

- RUELLIA. (roo-EL-i-ah)

Acanthaceae. Ornamental G4 plants in North; pretty outdoors in South.

- Wild Petunia. 2 ft; lilac or bluish fls; Tex.

- RUMEX. (ROO-mex)

—pattencia. PUME-13. 25¢

Spinach dock; Herb. Patience. A savory winter vegetable; 6 ft; HP.

- Sorrel. RUME-29. 35¢

Sorrel. Sor Belleville Sorrel. Excellent herb for salads; HP. Oz. 90¢.

- RUSCUS. (RUS-kus)

Liliaceae. Shrubs with berry-like fruits; grown in the South; seeds will produce plants of both sexes.

- aculeatus. RUSC-1. 30¢

Butcher's Broom. Evergreen; red or yellow berries; 3 ft. Oz. 50¢; lb. \$3.00.

- racemosa; see Danæ racemosa.

- RUTA. (ROO-tah)

RUE. Rutaceae. Aromatic and pungent herbs; of medicinal value.

- graveolens. RUTA-4. 35¢

Common Rue. (officialis); Ev. gr. subsh; 3 ft; HP.

- SABAL. (SAY-bal)

Palmetto. Palmaceae. (Inodes). The Palmetto Palms, found in Florida and as far North as N. C. They are easily grown; fresh seed is available in the fall; germinates readily and grows quickly.

- Blackburnia. SABA-4. 60¢

Palm. 100 seeds \$3.00; 1,000, \$15.00.

- minor. SABA-10. 60¢

(Admonii) 200 seeds to lb; (May).

100 seeds \$3.00; 1,000, \$15.00.

- SABATIA. (sab-BAY-shee-uh)

—campestris. SABA-3. 30¢

Rose Gentian. Lilac fls; 15"; HHA.

- SAFFRON: see Carthamus tinctorius.

- SAGE: see Salvia officinalis.

SAINTPAULIA

African Violets. Gesneriaceae. They can grown easily from seeds and produce excellent type flowers. The seed being small, sow them on the surface of a mixture of peat, leaf mould and silver sand, equal parts; press seeds into soil and cover with glass; water from below; keep in warm place where they germinate in 2 weeks; be careful of damping off, ventilate often.

If lights are used, 600 foot-candles, for 18 hours per day, will produce saleable plants in about 90 days; chromosome N-15 for all species.

NEW C40P SEED: September to January.

- Amaranth. SAPU-1A. \$1.00

A very superior German strain. 500 s'ads to the packet.

- d. pictica. SAPU-1. 50¢

Deep blue strain; German grown seed; very free flowering strain; special; packets have about 250 seeds.

- Blue Fairy Tale. SAPU-1B. 75¢

An improved floriferous strain from Germany.

- Hybrids. SAPU-1H. 60¢

Choice large flowered mixture; many attractive shades; grown in the Netherlands.

1/64 Oz. \$21.00.

- SAUX. (SAY-likes)

Willow, Osier. Salicaceae.

- Caprea. SALX-21. 30¢

at Willow. 25 ft; Asia. Oz. 50¢; lb. \$1.75.

SAIPIGLOSSUS

(sal-pi-GLOS-i) Solanaceae. Half hardy annuals from Chile, the Paisly Flower, suggests well the exotic beauty of its coloring, rich velvety tones of purple, blues, yellows, reds and white, veined with gold; funnel-shaped, 2½" across; blooms from July till frost. Start seed early indoors, being careful not to allow seedlings to become stunted; best in sandy soil and part shade; germinates in light and a warm place; for winter flowers

in the GH, sow first week in August; don't over-water.

- Dwarf Giant Flowered.** **SALP-ID.** 30¢
Bushy plants; 1½ ft; HHA.
- Emperor.** **SALP-IE.** 30¢
Upright growth; heavy gold veining; extra fine; 3 ft; HHA. ½ **Oz.** 75¢.
- gloxiniaeflora.** **SALP-IG.** 30¢
Gloxinia-like flowers; beautifully marked; 3 ft.
- Blend.** **SALP-IX.** 25¢
All kinds mixed. ½ **Oz.** 75¢.

SALVIA

(SAL-v-ah) Sage. Labiatea. There are many species, some of which are very showy in the flower border. *S. splendens*, Scarlet Sage, is the best known, being grown for its red flowers. They all are easily grown from seed and require no special treatment.

Salvias do best in lime soils.

- argentea.** **SALV-4.** 30¢
Silver Salvia. White woolly fol; rose-white fls; 8"; HB. ½ **Oz.** 90¢.
- azurea.** **SALV-7.** 30¢
Blue or white fls, ½" long, in racemes; 3 ft; HHP
- coccinea.** **SALV-20.** 30¢
Perennial of tropical Amer; grow as a HHA; fls quite distinct from *S. splendens*; bright scarlet, carried on long slender racemes; July-Sept; 2 ft. ½ **Oz.** 90¢.
- farinacea.** **SALV-24.** 30¢
Perennial native of Texas; grow as HHA in North; spikes of soft lavender-blue; July-Sept; 2-3 ft. ½ **Oz.** \$1.50.
- Blue Bedder.** **SALV-24B.** 30¢
A pretty shade of blue and longer spikes; fairly hardy. ½ **Oz.** \$2.00.
- haematodes.** **SALV-29.** 30¢
Delightful border plant with low growing foliage and branching spikes, 2½-3 ft; HP.
- Horminum.** **SALV-34.** 40¢
Lilac-purple fls in racemes; 1½ ft; HA.
- Oxford Blue.** **SALV-34B.** 30¢
A showy Salia; deep blue bracts; 2 ft; HA.
- interrupta.** **SALV-40.** 30¢
Bluish white fls in racemes 2 ft long; 4 ft; TSh.
- Juriscii.** **SALV-44.** 30¢
Small purple fls on branched racemes; 18"; Serbia; HP.
- lyrata.** **SALV-48.** 30¢
Bright blue fls on 2 ft stalks, in whorles; sandy soil; will flower first year if started early; HP.
- officinalis.** **SALV-60.** 25¢
Garden Sage. Sow late in fall or early spring. **Oz.** 75¢; lb. \$5.00.
- patens.** **SALV-61.** 30¢
Gentian Salvia. Blue fls 2" long; 2½ ft. HHA ½ **Oz.** \$2.50.
- Cambridge Blue.** **SALV-61C.** 20¢
A pretty improved variety. ½ **Oz.** \$2.50.
- Mauve Queen.** **SALV-61M.** 20¢
A lovely mauve colored variety. ½ **Oz.** \$3.00.
- Lavender Lady.** **SALV-61L.** 30¢
Improved lavender variety. ½ **Oz.** \$2.50.
- patensis.** **SALV-64.** 30¢
Bright blue fls, 1" long; 3 ft; HP.
- scabiosaefolia.** **SALV-75.** 30¢
- Sclarea.** **SALV-77.** 30¢
Clary Salvia. Rose and white fls, 1" long in paniced racemes; 3 ft; HP.
- turkestanica.** **SALV-77T.** 30¢
White fls tinged with pink
- sonomensis.** **SALV-83.** 30¢
Creeping Sage. Light shade or in sun; rare; HP; (VIII).
- Salvia Blend.** **SALV-X.** 25¢
Mixture of all kinds excepting *S. splendens*.

ens.

SCARLET SAGE

S. SPLENDENS: Scarlet Sage, easily grown from seed started in Feb. or March. They are perennials but tender; grow as TA in the North. Seed germinates in about 15 days and should be kept in a warm place and in the light; cover seed pan with glass, not with paper in this case.

- Scarlet Piccolo.** **SALV-85P.** 35¢
An entirely new variety; 10" high; bright scarlet fls; the dwarfest and earliest Salvia. ½ **Oz.** \$4.50.

- America.** **SALV-85A.** 30¢
Earliest; uniform plants, 20" high; brilliant scarlet. **Oz.** \$3.00; lb. \$26.00.
- Bonfire.** **SALV-85B.** 30¢
Brilliant scarlet; erect stiff growth; 30" high; (Clare Bedman). **Oz.** \$2.50; lb. \$24.00.
- Fireball.** **SALV-85F.** 30¢
Scarlet fls; very early; dwarf; heavy spikes; 15". **Oz.** \$4.00; lb. \$32.00.
- St. John's Fire.** **SALV-85S.** 30¢
Early dwarf; scarlet fls; upright growth; 10" plants. **Oz.** \$9.00.
- Zurich.** **SALV-85Z.** 30¢
Earliest and very dwarf; compact; scarlet; 18". **Oz.** \$3.00; lb. \$26.00.

NOTE: We will be pleased to quote special prices in pound lots to florists; please write, stating kinds and quantity wanted.

SAMANEA.

(sam-an-EE-ah)

Leguminosae. Tropical American trees and shrubs; shade; X.

- caerulea.** **SAMA-3.** 50¢
- Samen.** **SAMA-12.** 50¢
Rain Tree. (Pithecellobium, Inga) or Monkey-pod. Tree to 80 ft; yellowish fls with showy pink stamens; (X).
- Samen.** **SAMA-12.** 50¢
Rain Tree. Monkey Pod. Pretty shade tree; (X). 100 seeds \$2.50.

SAMBUCUS.

(sam-BEW-kus.)

Elder. Caprifoliaceae. Shrubs and small trees; very pretty in masses; fruits edible; seeds sown during Jan. germinate freely.

- nigra.** **SAMS-11.** 30¢
European Elder. **c.s.** **Oz.** 50¢; lb. \$2.00.
- racemosa.** **SAMS-14.** 40¢
European Red Elder. **d.b.** **Oz.** 50¢; lb. \$2.00.
- schabodiana.** **SAMS-17.** 40¢
Bush to 20 ft; fls yellowishwhite in panicles 3" ac; APR-May; China. **Oz.** 85¢

SANDERSONIA.

- aurantiaca.** **SAND-1.** 50¢
A GH plant in the North; bright yellow fls; 2 ft.

SANOUISORRA.

(san-gwi-SOUR-bah)

Rosaceae. BURNET. Popular herbs with cucumber-like flavor; seeds germ. readily; sow early; space 8".

- officinalis.** **SANG-12.** 25¢
Garden Burnet. To 5 ft; dark purple fls in spikes, 1" long; HP; (Pimpernel)

SANTALUM.

- album.** **SANL-1.** 50¢
White Sandlewood. (X). **Oz.** \$1.75.

Next Catalog will be ready during Dec. 1958

SANTOLINA.

(san-toh-LY-nah)

Compositae. Low border or edging plants many of which are propagated by cuttings. Grayish low evergreen shrubs with many flower-heads of yellow or white disk flowers.

—**rosmarinifolia.****SANO-6.** 30¢

Solitary heads; 2 ft; HHSh.

SANVITALIA.

(san-vi-TAY-le-ah)

Compositae. Small American annuals with small solitary heads and white or yellow rays, brown or purple disks; light soil and full sun.

—**procumben.****SANV-1.** 25¢—**Doubie.****SANV-1D.** 25¢

Creeping Zinnia. A low border plant, 6" for hot dry places; fls orange-yellow with conspicuous purple-black centers; Aug-Oct; trailing. $\frac{1}{4}$ Oz. 85¢.

SAPIUM.

(SAY-pi-um)

—**Muk-wossii.****SAPN-3.** 50¢

Soap-berry; (IX). Oz. 90¢; lb. \$4.00.

SAPIUM.—**sebiferum.****SAPI-2.** 50¢

Chinese Tallow Tree, Vegetable Tree. (IX). 100 seeds \$5.00.

SAPONARIA.

(sap-on-NAY-ree-ah)

Soapwort. Caryophyllaceae. Easily grown hardy annuals and perennials, some of which are excellent for the rockery; flowers are red, pink or white, in cymes or panicles. Fls often used for mixing with Sweet Peas or other cut-flowers; succession plantings, March to June for market; annuals best sown in April where they are to grow.

—**calabrica.** Mixed.**SAPO-3X.** 25¢

Pretty edging or bedding plant with small starry fls in bright red, deep rose, white and blood-red, in profusion all summer; 6-9"; HA; space 6". Oz. 60¢.

—**officinalis.****SAPO-9.** 30¢

Bouncing-Bet. Pink or white fls in clusters; open places; 1-2 ft. **PLANTS:** 70¢; **3 for \$1.55.**

—**Red.****SAPO-3R.** 25¢—**White.****SAPO-3W.** 25¢—**ocymoides.****SAPO-8.** 25¢

Bright pink fls in flat-topped clusters; RG or walls; trailer; 9"; HP. Oz. 90¢.

ev. gr. trailer; rocks, banks, stony slopes or in tufts on edge of shrubbery.

—**splendens.****SAPO-8S.** 30¢

Fls larger and deeper rose. —**Vaccaria rosea.** **SAPO-13R.** 25¢

Pale pink fls, $\frac{1}{2}$ " across in loose cymes; popular for cutting; sow in Mar. or April; 2-3 ft; HA; space 18". Oz. 50¢.

—**White.****SAPO-13W.** 25¢

Oz. 50¢.

—**All Saponarias Mixed.****SAPO-X.** 25¢**SAPOTA.**

(sah-POH-tah)

Sapotaceae. Tropical evergreen trees; delicious fruits; grown in far South.

—**Zapot'a.****SAPT-1.** 30¢—**Sapdilla.** (X). Oz. 90¢.—**officinalis.****SAPT-9.** 30¢

Bouncing Bet. Pink fls 1" ac; 3 ft; May-Sept; HP. $\frac{1}{2}$ Oz. 50¢.

SARACA.

Leguminosaceae. Tropical Asian trees; fls in panicle racemes; ornamental in far S or can be grown in GH.

—**indica.****SARA-8.** 50¢

Asoka, Sorrowless Tree of India. Small tr; orange-red fls, frag; 25 seeds \$1.75.

SARRACENIA.

(sar-ras-SEEN-ee-uh)

Pitcher Plant. Sarracenaceae. American insectivorous plants grown as curiosities. Native of moist places and can be grown in pots of sandy muck soil, standing in a little water; soil temperature must be low to germinate.

—**purpurea.****SARR-7.** 35¢

Basal rosettes of weird 10" pitcher-like leaves that fill with water. Keep seed moist after sowing; acid soil.

SATUREJA.

(sat-yew-REEF-uh)

All but one species are perennial; sow in open ground in early spring.

—**aurie si.****SATU-15.** 30¢

Lvs used in stuffings, soups and in meat cooking; both green or dried; HA; 2 ft; very fragrant.

—**montana.****SATU-19.** 25¢

Winter Savory. Sub-sh; 15"; purplish fls; sow direct to garden.

SAUSSUREA.

(soSS-YEW-ree-ah)

Compositae. Temperate zone plants with heads of blue or purple disk flowers, easily grown from seed. They make nice ornamental plants in the border.

—**gossypiphora.****SAUS-4.** 50¢

Dwarf; 6-12 inches; fls in large umbels; silvery gray; HP.

SAVORY: see **Satureja.****SAXIFRAGA**

(sak-SIF-rah-gah) Rockfoil. Saxifragaceae.

A very large genus, much prized for its flowers, both in the border or rockery; they are not hard to grow from seed and require the usual attention of all perennials; sow seed either late in the fall or early spring for best results; use a gritty soil and place in cold frame.

—**aioon.** Mixed.**SAX-4X.** 35¢

Dense basal rosettes; fls $\frac{1}{2}$ " ac; 18"; HP.

—**dense.****SAX-4D.** 35¢

Rosettes very small and silvery; creamy fls; HP.

—**minor.****SAX-4M.** 35¢

Small silvered rosettes and short spikes; white flowers; HP.

—**rosea.****SAX-4R.** 35¢

Bright pink flowers; HP.

—**decipiens:** see **S. rosacea.**—**arguta.****SAX-22.** 40¢

White fls with yellow spots; very small, panicles; 8"; HP.

—**cartilaginea.****SAX-54.** 40¢

White, rose or purple fls; lvs in rosettes; 9"; HP.

—**Cotyledon.****SAX-65.** 50¢

White fls veined pink, frag, $\frac{3}{8}$ " ac; 2 ft; HP.

—**crustata.****SAX-68.** 40¢

Dense tufts; white fls, $\frac{1}{2}$ " ac; 1 ft; HP.

—**cuneata infundibuliformis.** **SAX-70F.** 40¢

Spoon-shaped lvs; HP.

—**hostii.****SAX-120.** 50¢

(elator) White fls dotted purple, $\frac{1}{2}$ " ac; 2 ft; lvs in rosettes; HP.

—**ligulata:** see **Bergenia ligulata.**—**Alberitii****SAX-130A.** 50¢

Larger than type; fol. bluish gray; fls white spotted red.

—**opositifolia.****SAX-157.** 50¢

Rose or purple fls $\frac{1}{2}$ " ac; 2" high; densely matted; Alps; HP.

—**rosacea.** Purple **Mariae.****SAX-76P.** 50¢

1 ft; deep purple; tufted; HP.

—**virginiana.****SAX-190.** 25¢**SAX-200.** 35¢

Leaves in rosettes; white fls, $\frac{1}{2}$ " ac; 1 ft; HP.

—**Encrusted Species Mixed.** SAX-80. 50¢

—**Mossy Species Mixed.** SAX-145. 50¢

—**Saxifraga Mixed.** SAX-X. 30¢

All kinds mixed.

SCABIOSA

(skay-bee-OH-suh) Mourning Bride, Pin-cussion Flower. Dipsacaceae. A very popular garden flower for sunny places; sow seeds either early indoors or later, to the open soil. In the South plant the annuals in the fall; pinch back the annuals for bushy plants and by keeping flowers cut, they will bloom all summer.

S. ATROPURPUREA: Sweet Scabiosa. Erect HA in many varieties; 3 ft; they are excellent cutflowers; for GH growing sow Jan. 1st.

—**Blue Cockade.** SCAB-3BC. 25¢

Mid-blue; large flowers.

—**Blue Moon.** SCAB-3BM. 25¢

Deep lavender-blue. $\frac{1}{2}$ Oz. \$1.50.

—**Cherry Red.** SCAB-3CR. 20¢

—**Sulphur Yellow.** SCAB-3SY. 20¢

—**Rose.** SCAB-3Z. 20¢

—**Cattileya.** SCAB-3CT. 20¢

—**Crimson.** SCAB-3CM. 20¢

—**King of the Blacks.** SCAB-3KB. 20¢

—**Dark Purple.** SCAB-3P. 20¢

—**Salmon Beauty.** SCAB-3SB. 20¢

PRICE: Any of above. Oz. 90¢; $\frac{1}{4}$ lb. \$2.50.

SCABIOSA SPECIES:

—**alpina.** SCAB-2. 30¢

Solitary lavender-blue fls 1" ac; 6"; RG; (IV); HP.

—**caucasia, House Hybrids.** SCAB-6H. 30¢

One of the loveliest perennials; shades of blue; highly improved. $\frac{1}{2}$ Oz. \$1.50.

—**Clive Grieves.** SCAB-6G. 30¢

Rich mauve. $\frac{1}{2}$ Oz. \$1.50.

—**Goldingensis.** SCAB-6G. 30¢

Large flowered lavender. $\frac{1}{2}$ Oz. \$1.50.

—**Columbaria, Mixed.** SCAB-7X. 25¢

Dedicate lavender and pink fls; 18"; HP.

—**Pink.** SCAB-7P. 25¢

—**Lavender.** SCAB-7L. 25¢

Bluish purple fls; HP; Dahuria.

—**Fischeri.** SCAB-9. 30¢

—**graminifolia.** SCAB-12. 30¢

Pale blue fls in flat heads, $\frac{1}{2}$ " across; 1 ft; HP.

—**Incida.** SCAB-16. 30¢

Uncommon and beautiful; pink fls in dense heads, 8"; fls in summer and aut; pink pin-cussions; sunny walls or RG; HP.

—**ochroleuca.** SCAB-22. 30¢

Yellow fls; $\frac{1}{2}$ ft; leaves basal; HP.

—**peruviana.** SCAB-27. 30¢

—**Perennial Species Mixed.** SCAB-PX. 30¢

SCOFFLERA

Araliaceae. Ornamental tropical shs and small trs; hardy in South.

—**digitata.** SCHE-8. 40¢

Small tr to 25 ft; greenish fls, $\frac{1}{2}$ " ac in 1 ft. long panicles; followed by berries; lvs give tropical effect; N. Z.

SCAEVOLA

—**frutescens v. serica.** SCAE-2S. 35¢

Hawaiian Jade Tree. Both fls and fruit white; not edible; will grow near sandy beach; 3 foot shrub.

SCHIMA

Theaceae. Ev. trs or shs from tropical Asia; fls and fruits very showy; (X).

—**Wallichii.** SCHM-3. 50¢

Ornamental tr to 40 ft; profusion of pretty white fls, 2" ac; yellow anthers; India.

SCHINUS

(SKY-nus)

Anacardiaceae. Ornamental trees with small flowers in racemes or panicles, followed by fruits; not hardy in the North; they make fine lawn specimens in the South; can be grown in the GH as pot plants.

—**Molle.**

SCHN-6. 25¢

California Pepper Tree, Peruvian Mastis Tree. Evergreen to 20 ft; yellowish fls; (X). Oz. 50¢; lb. \$2.50.

—**terebinthifolius.**

SCHN-8. 30¢

Brazilian Pepper Tree, Xmas Berry Tree. (IX). Oz. 65¢.

—**Mixed.**

SCHN-X. 25¢

SCHISANDRA

(skiss-AND-ruh)

—**chinensis.**

SCHS-1. 35¢

25 ft. climber; white or pinkish fls $\frac{1}{2}$ " across; fragrant; May-June; scarlet berries; Japan; (IV).

SCHIVERECKIA

(skw-er-REK-ee-uh)

Cruciferae. Little perennials similar to Alyssum.

—**podolica.**

ECHV-4. 50¢

Tufted; 2-4" high; white fls in short racemes; HP.

SCHIZANTHUS

(sky-ZANTH-us). Butterfly Flower. Sofan-aceae. Beautifully marked and unusually formed flowers in chamois, rose, lavender and purple shades; fern-like foliage; excellent for pot culture the year around or in partly shaded beds outdoors, doing best in a cool climate. Pinch back tops to induce a bushy growth; for winter flowers, start in Sept. for blooms in Feb. or plant later to flower as late as May; for summer bloom start indoors in March; they make up well in corsages and last well; germinate in 14 days.

—**Dr. Badger's Hybrids.** SCHZ-1B. 30¢

Brilliant range with no whites; all with golden blotch; 1 ft. $\frac{1}{2}$ Oz. \$1.00.

—**Dwarf Boquet.** SCHZ-1K. 30¢

Extra dwarf strain; brilliant colors. $\frac{1}{2}$ Oz. \$1.50.

—**Chislehurst Hybrids.** SCHZ-1Z. 30¢

Beautiful strain in violet and purple shades. $\frac{1}{2}$ Oz. \$1.30.

—**wisetoniensis.**

SCHZ-1W. 25¢

Valuable hybrid race; most popular type for pot culture; 18"; may be planted any month for GH growing; space plants 1 ft.

—**Butterfly Mixture.** SCHZ-X. 25¢

Brilliant colors; 1 ft. $\frac{1}{2}$ Oz. \$1.00.

SCHIZOBASOPSIS

(skye-goh-bas-OPS-iss)

South African bulbs grown in the GH as a curiosity; keep bulbs dormant from May-October.

—**volubilis.**

SCHB-1. 35¢

(Bowia).

SCHIZOSTYLUS

(skye-ZOSS-til-iss)

Crimson Flag, Kafir-Lily. Iridaceae. nice GH outflower in the North.

—**coccinea.**

SCHI-1. 30¢

Deep crimson fls, 2" across; lvs grass-like; 2 ft; TP.

SCHMA

—**Wallichii.**

SCHM-8. 35¢

SHCRANKIA. (SHRAN-ki-ah)

Leguminosae. (Morongia) Amer. and Af. perennials, woody plants and shrubs.

—uncinata.

SCHR-9. 30¢

Sensitive Brier. Decumbent, with stems to 4 ft long; pink fls in heads, 1" ac; (VIII); HHP.

SCHWALBEA.

Scrophulariaceae. Eastern N. American —**americana.** SCHW-1. 30¢

Showy spikes of yellow and purple fls, 2 ft long; found in moist sandy meadows. perennials.

SCIADOPITYS.

(sy-ad-DOP-it-iss)

Umbrella Pine. Taxodiaceae. Japanese evergreen tree; ornamental; slow growing. Best grow from seed.

—verticillata.

SCIA-1. 35¢

Hardy up to Michigan; (IV); leaves small and scale-like.

SCIRPUS.

(SER-pus)

Bulrush. Cyperaceae. Grass-like plants with little spikelets; grown in shallow water or low places.

—Hystrix.

SCIR-7. 40¢

(S. natalensis) To 6"; tufted; spikelets ¼" long; dense heads; TA. ½ Oz. 90¢.

SCILLA

Liliaceae. Attractive and popular bulbous plants with narrow basal lvs and sprays of starry flowers in blue, white or pink; ideal for rockery, woodland or border; they can also be grown in pots. (SIL-ah).

—hispanica.

SCIL-7. 40¢

Spanish Blue Bell. (campanulata) 2 ft; blue to rose-purple fls.

—bifolia.

SCIL-8. 30¢

—**hyacinthoides.** SCIL-12. 40¢
Hyacinth S. Violet-blue fls ¾" ac; HBB.

—nonscripta.

SCIL-13. 25¢

(Nutans) English Blue Bells. 1 ft; HBB.

—peruviana.

SCIL-14. 40¢

Purple to reddish or white; 1 ft; HP.

—patalensis.

SCIL-15. 25¢

Very small blue fls in racemes; 18"; HBB.

—sibirica.

SCIL-15. 25¢

—**vulgare:** see *Phyllitis Scolopendrium*.

SCHOLTZIA.—**irivuea** a.

SCHO-10. 50¢

1 ft. Australia.

—leptantha.

SCHO-20. 50¢

2-3 ft; Australia.

SCOLOPENDRIUM.

—**vulgare:** see *Phyllitis Scolopendrium*.

SCORZONERA.

(skor-zoh-NEER-uh)

—**hispica.** SCOR-1. 30¢
Cardoon. Black Salsify. A good root vegetable used much like Salsify; plant in early spring; can be grown as HA or HB.

O. 25¢ lb. \$2.30.

—laciata.

SCOR-4. 35¢

Perennial with lvs clustered at base and bright yellow daisy-like fls on 1 ft stems; blooms over months; Australia.

SCROPHULARIA. (skrof-yew-LAY-fe-uh)

Figwort Scrophulariaceae. Hardy perennial plantlet in the border; also a medicinal herb.

—chrysanthea.

SCRO-3. 30¢

Greenish yellow fls; 2 ft; HB or HP; caucanus.

SCUTELLARIA.

(skew-tel-LAP-ree-uh)

Labiatae. Annuals and perennials with blue violet, scarlet or yellow 2-lipped flowers in terminal spikes or racemes; for border or rockery.

—integrifolia.

SCUT-13. 30¢

Blue fls in spikes in early summer; 2 ft; HP. (IV).

—**SEAFORTHIA:** see *Archontophoenix*.

—**elegans:** see *Ptychosperma elegans*.

SECHUM.

(SEEK-ee-um)

—edule.

Chayote, Christophine. These come in fresh fruits and usually arrive about April; orders should be placed before Feb. One fruit, \$3.00, postpaid.

SECURIDACA.

(see-q-RID-ah-see)

Rhodesian Violet Tree. Popygalaceae. A showy flowering tree hardy in the South.

—longipedunculata.

SECU-1. 30¢

Very beautiful tree; small pea-like purple pink fls; fragrant.

SEDUM

(SEED-um) Stone Crop, Live-For-Ever.

Succulent or fleshy, erect or prostrate plants, mostly hardy and easily grown; popular for the rockery, walls and such places. No rock garden is complete without Sedums; they are appealing to children. Sow seeds any time and treat like any perennial; sunny spots light sandy soil.

—acre.

SEDM-2. 30¢

Vigorous, spreading; mats of rich green; golden stars; 4"; HP.

—album x murale.

SEDM-8M. 30¢

Purple foliage; pinkish fls; creeping, mat forming; 8"; HP.

—Anacampseros.

SEDM-18. 50¢

Nearly ev. gr.; procumbent, 6"; purple fls ½" ac in summer.

—caeruleum.

SEDM-28. 30¢

Charming species with pale blue fl-heads; foliage green, turning red at flowering time; June-Aug; 3-4 ft; space 4 ft HP.

—euphorbioides.

SEDM-42. 40¢

—**floriferum.** SEM-57. 40¢
Yellow fls ½" across; semi-evergreen;

July-August; China; HP.

—involutum.

SEDM-69. 40¢

—**Kamtschaticum.** SEM-72. 40¢
Orange-yellow fls. ¾" ac; rocky and bare

places; 3-6"; HP.

—Leibergii.

SEDM-76. 30¢

Fine for RG; fleshy spoon-shaped lvs; golden stars; 10"; HP.

—oreganum.

SEDM-100. 30¢

Green lvs; bright yellow, fading to a pink; HP.

—rosea.

SEDM-127. 30¢

Yellowish or greenish fls; 1 ft; HP.

—sempervivens.

SEDM-138. 35¢

Red fls, ½" across; 1 ft; HBB.

—spectabile, Brilliant.

SEDM-145B. 40¢

Red fls 1½" across; glaucous; 18"; HP.

—suauium coccineum.

SEDM-148C. 30¢

Creeping mats; 6"; nearly evergreen; red fls; HP.

—Tatarinowii.

SEDM-159. 30¢

White to pink fls; 8"; China; HP.

—Sedum Mixed.

SEDM-X. 30¢

SELAGINELLA.**—serpens.**

SELA-24. 50¢

SELENICERFUS.

(sel-en-iss-SEER-ee-uh)

Climbing, night flowering; finest of all Cacti; can be trained up sash bars; soil

heavy with sand and leaf mould; plenty of water and occasional syringing during the growing season.

—*viridiflorus*.

SELE-26. 40¢

SEMPERVIVUM

(sem-per-VYE-vum) House Leek. Crassulaceae. Succulent plants or sub-shrubs with fleshy leaves and very much like the Sedums. Flowers are in dense heads, white, pink, greenish yellow or purple; excellent for rockery and thrive in sandy soils, sunny places.

—*caespitosum*.

SEMP-16. 30¢

(Aeonium) Tender shrub; lovely golden flowers.

—*glaucum*.

SEMP-31. 40¢

Red flowers 1" across; 1 ft; HP.

—*ornatum*.

SEMP-69. 40¢

Best of the House-Leeks. (S. Schlehanii v. brunneifolium); brown lvs, red in winter; 6"; rose fls.

—Mixed.

SEMP-X. 25¢

SENECIO

(se-NEE-see-oh) Groundsel, Cineraria. Compositae. A large and variable genus, including shrubs and trees. They are usually easy to grow from seed; a good loamy soil best. The greenhouse Cinerarias correctly belong here.

—*adonidifolius*.

SENE-2. 40¢

—*ambracens*.

SENE-4. 30¢

—*Cineraria*.

SENE-15. 30¢

(Cineraria maritima) Dusty Miller. 2-½ ft; white woolly lvs; blooms all season.

—*diversifolia*.

SENE-21. 30¢

Low growing shrub; yellow fls; hardy.

—*doronicum*.

SENE-24. 30¢

Orange Daisy. 1 ft; RG; HP.

—*Double Mixed*.

SENE-25DX. 25¢

—*dryadeus*.

SENE-26. 30¢

Native of Australia.

—*elegans*.

SENE-29. 25¢

Flower heads in loose corymbs; rays purplish, disks yellow; 2 ft; HA. ½ Oz. 90¢

—*Tom Thumb*.

SENE-29T. 30¢

Dwarf double. Choice mixed

—*G-e-vii*.

SENE-38. 35¢

Yellow fl-heads, 1" ac in corymbs to 5" ac; sh! 8 ft; N. Z.

—*jacquontiana*.

SENE-30. 50¢

Collected in the Himalayas; HP

—*leucostachys*.

SENE-34. 25¢

Shrubby at base; RG; porch box; HHA.

Oz. 60¢.

—*ca didissmus*.

SENE-14C. 30¢

Extra good porch box plant; less stiff habit; white tomentose lvs. Oz. 80¢.

—*Diamond*.

SENE-14D. 25¢

Usually listed under Cineraria; foliage pure white; RG. Oz. 80¢.

—*divadans*.

SENE-26. 35¢

Forest Groundsel.

—*grahel*.

SENE-37. 35¢

Shrub to 3 ft; many butter-yellow daisies in summer; beautiful; neat leaves

—*grayii*.

SENE-38. 40¢

Yellow flowered daisies; N. Z. shrub; lvs white-felted beneath; cliff plant; 3 ft; will stand 15 degrees Far.

—*lagnus*.

SENE-40. 25¢

—*macrolossus*.

SENE-41. 30¢

Cane Ivy. Bright yellow daisies; climber; TD

—*marant*.

SENE-45. 35¢

N. Z. shrub; 6 ft; fls yellow in heads a good 1½" ac; corymbs; very pretty; gray-green notched leaves.

—*leucostachys*.

SENE-49. 35¢

(S. cineraria candidissima) Used much in porch boxes; white lvs; often listed

under Cineraria.

—*Purshiana*.

SENE-58. 30¢

Light gray foliage; bright yellow heads; 8 ft; HP

—*scandens*.

SENE-66. 30¢

Climber to 20 ft; loose panicles; yellow ray fls; 3-4 ft; HHP.

—Mixed.

SENE-X. 25¢

SEQUOIA

(see-KWOI-yah)

Taxodiaceae. The large evergreen tree of California, growing to 300 ft. They grow only near the sea coast where the fogs occur. germination is usually very low on all lots.

—*sempervirens*.

SEQU-2. 30¢

Redwood Tree. Oz. 75¢; lb. \$7.00.

SEQUIADENDRON

(see-kwoy-ad-DEN-dron) Giant Sequoia.

—*giganteum*.

SEQU-1. \$1.00

Giant Sequoia. This is the famous giant trees of California; specimens have been grown in central N. Y. or zone (IV).

SERRATULA

(sehr-RAT-yew-loh)

Compositae. Perennials allied to Centaurea. Flowers are either single or in corymbs, of disk flowers; good plant for the border; good late bloomers.

—*coronata*.

SERR-1. 30¢

—*Shawii*.

SERR-8. 35¢

A compact dwarf Centaurea; dark green lvs, finely cut; fls bright purple 10"; HP.

SESBANIA

(ses-BAY-nee-uh)

—*Emerus*.

SESB-3. 40¢

(S. macrocarpa) Shrub; 16 ft; TSH; (X).

—*grandiflora*; see Agati gr. fl.

—*macrophylla*.

SESB-8. 40¢

—*Zambesica*.

SESB-18. 40¢

South Rhodesian species.

SETARIA

(see-TAY-ree-uh)

Gramineae. Tender annual and perennial

—*italica*.

SETA-1. 25¢

(S. macrochaeta) Fox tail Millet.

HHA; 5 ft; useful for winter decorations; cut before too ripe. Oz. 40¢; lb. \$3.00.

SETICEREUS

—*icosagonus*.

SETI-9. 75¢

SHAMROCK

—*True Irish*.

SHIF-20. 25¢

For GH growing sow Dec 1st for 2" pots on St. Patrick's Day; Jan. 1st for 1" pots. Oz. 75¢.

SHEPHERDIA

(shep-HERD-ee-uh)

Elaeagnaceae. Shrubs and small trees, adapted to dry rocky soils and doing well near the sea shore; sow seeds in the fall or stratify.

—*argentea*.

SHEP-1. 30¢

Ruffalo Berry. A thorny hedge shrub; very hardy; 1½ ft.

—*canadensis*.

SHEP-2. 25¢

Thornless; fruits red or yellow; very hardy; 8 ft.

SICYOS

Cucurbitaceae. Annual tendril bearing monoecious vines; Amer. and Australia.

—*angustatus*.

SICY-3. 30¢

Burr or Star Cucumber. TA vine to 20 ft; for screens. Oz. 75¢.

This is a CAT OF SEEDS not a Seed Catalog. It is a source book for both ornamental and botanical seeds and plants. No other like it published anywhere.

SIDALCEA.

(sye-DAL-see-uh)

Malvaceae. Flowers are like miniature Hollyhocks, in spikes or clusters; thrive in rich sandy soils. The perennials bloom over a long time; fine for border; germinates freely in light sandy soil in pans, during April; use cold frame.

—*maivaeola*.**SIDA-7L. 40¢**

Checkersbloom. HP; 2 ft; this is a beautiful pink form.

—*Sia-k's Hybrids.***SIDA-55. 25¢**

A highly improved strain and extra color range: 3" PP. 1/2 Oz. 90¢.

—Pink Shades.

SIDA-55P. 35¢**SILENE**

(see-LEE-n-ee) Catch-fly, Campion. Caryophyllaceae. Annual, biennial and perennial plants in many species, most showy and valued both in the border and rockery. The seed of the annuals can be sown in the fall, and earlier flowers will be produced.

—*acaulis.***SILE-1. 30¢**

Pink fls: moss-like tufted perennial; May-August; HP.

—*o. o. gaia.***SILE-1E. 35¢**—*alpestris.***SILE-4. 25¢**

Glistening white fls, 1/2" ac; panicles; in June-August; 6"; HP.

—*flora p. eno.***SILE-4D. 25¢**

Double flowered form.

—*armeria.***SILE-6. 25¢**

Bright magenta; 1 ft; HP; sow in late fall

—*Peach Blossom.***SILE-6B. 25¢**

Compact; flesh color; drooping racemes.

—*pedula.***SILE-6P. 25¢**

Rose and white fls; 20"; HP.

—*New Art Shades.***SILE-6A. 25¢**

Dwarf; double fls; RG; HP.

—*All Armeria Mixed.***SILE-6X. 20¢**

compac. a. S. **SILE-20. 30¢**
S. *orientalis.* 2 ft; HB; pink fls in dense heads, 3" ac; July.

—*falcata.***SILE-35. 40¢**

Low caespitose curly lvs; white, marked mahogany; scree; HP.

—*flimbriata.***SILE-36. 30¢**—*fortunei.***SILE-37. 30¢**

Rose and white fls; best grown as HA; Sept; 3 ft; HP.

—*Friv. dskyana.***SILE-38. 25¢**

Cream to white fls; Greece; 2 1/2 ft; HHP.

—*hookeri.***SILE-48. 25¢**

White or pink fls, 2" ac; lovely for RG; 5"; HP.

—*maritima.***SILE-62. 25¢**

Pretty white fls; RG; 5"; HP.

—*pendula, Rose.***SILE-75R. 20¢**

Rose fls, 1 1/2" ac; drooping racemes; 10"; HA. **Oz. 90¢.**

—*purpurea.***SILE-75B. 20¢**

Purplish fls; stems brownish red; 10"; HA.

—*Byou.***SILE-75Y. 20¢**

Pink salmon-rose fls; 10"; HA.

—*white.***SILE-75W. 20¢**

Compact double crimson; HA. **Oz. 90¢.**

—*Double Mixed.***SILE-75X. 25¢**

Rosy purple fls; RG; 6"; HP. **Oz. 50¢.**

—*Abbotswood Variety.***SILE-75A. 30¢**—*Shade Mixed.***SILE-X. 25¢**

All kinds mixed.

SILPHIUM.

(SILL-fee-um)

Compositae. Thistle-like herbs blooming the first year from seed.

—*maritimum.***SILP-2. 25¢**

To 5 ft; fl-heads 2" across Aug-Sept; (IV).

—*laci-atum.***SILP-4. 25¢**

Compass Plant. Yellow fls, 2" ac; 3 ft;

attractive oak-leaf foliage; (III); HP.

—*perfoliatum.***SILP-6. 25¢**

Cup-Plant, Indian Cup. Flower heads 3" across, yellow; June-Sept; 6-8"; HP; (IV).

SILYBUM.

(SIL-i-bum)

Compositae. Thistle-like herbs; bloom first year from seed.

—*marianum.***SILY-3. 25¢**

(Carduus) Blessed or Holy Thistle. To 4 ft; heads 2 1/2" ac; HA or HB.

SIMMONDSIA.—*californica.***SIM-1. 30¢**

Goat-nut. Boxwood-like evergreen shrub to 7 ft; (VIII).

SINNINGIA

(sin-NIN-jee-ah) Gloxinia. Gesneriaceae.

Brazilian plants with tuberous cork-like roots. The Gloxinia being the best known; requires a warm humid atmosphere and shade.

February-April sown seeds will produce flowering plants for winter; germinate at 60 deg. F., in sifted peat, sand and leaf-mold, equal parts; seed sown Dec. 20th produces fls June 1st; successive sowings every 2 wks till April 1st.

—*speciosa.***SINN-25. 50¢**

Gloxinia. The best strain obtainable; in a blend of colors; florist strain. **Trade Packet 75¢.**

—*Berlin, Mixed.***SINN-25BX. 50¢**

(Multiflora) Special free-flowering florist strain.

—*Defiance.***SINN-25D. 50¢**

(Benary) The scarlet Gloxinia.

—*gigantea.***SINN-25G. 50¢**

Benary's famous strain; large sized fls; rich colors.

SISYRINCHIUM.

(siss-ir-RINK-ee-um)

Blue Eyed Grass. Iridaceae. American grass-like perennials with small blue or yellow flowers; attractive in colonies in open moist places; easily grown.

—*augustifolium.***SISY-1. 30¢**

Blue stars with yellow eyes; 6"; RG; HP.

—*Bermudiana.***SISY-2. 30¢**

Large blue fls; sunny RG; 9"; HP.

—*californicum.***SISY-7. 30¢**

Bright yellow fls, 1/2" long; 1 ft; HP.

—*Douglasii.***SISY-10. 30¢**

Best species; large violet to white fls; 8"; (grandiflorum); HP.

—*graminoides.***SISY-11. 40¢**

Blue fls, 3/4" ac; 18"; N. S. to Texas.

—*st-iatum.***SISY-23. 30¢**

Yellow striped fls; 3 ft; attractive; HP.

—*Mixed.***SISY-X. 25¢****SKIMMIA.**

(SKIM-mee-uh)

Rutaceae. Evergreen shrubs native of China and the Himalayas; small white fls in terminal panicles; very ornamental shrubs for the South; in the North it makes a good pot plant; sow seeds in cold frame during Feb. germinate freely.

—*japonica.***SKIM-1. 30¢**

(S. oblata) Bright red fruits; 5 ft; HHP. lime soil; good town sh; needs both male and female plants to produce berries.

Oz. 60¢; lb. \$5.00.

SMILACINA.

(smye-las-SYE-nuh)

False Solomon's Seal. Liliaceae. Perennial rhizomatous plants; small white or greenish flowers in terminal racemes or panicles; moist part shade; nice in colonies.

- herbacea. **SMIL-3. 30¢**
- racemosa. **SMIL-4. 30¢**
- False Solomon's Seal. White fls; 2 ft; red br; (IV); June; shade. **PLANTS: 75¢; 3 for \$1.65.** This has both an epicotyl and doubl dormancy; expose moist seed to low temperature, then high and again to low and high; otherwise germination in open beds may take as much as two years.
- glycyphylla. **SMIL-7. 35¢**
- stellata. **SMIL-5. 25¢**
- Wild Lily-of-the-Valley. May-June; 10"; red and black berries; HP.
- texanum. **SOLN-45. 30¢**
- Spineless form; Scarlet Tomato; 3 ft; TA.
- Torreyi. **SOLN-48. 35¢**
- Purple Fl. Nightshade. Blue star-shaped fls; dry or moist soil; (V); HP. $\frac{1}{2}$ Oz. **50¢.**
- verbascifolium. **SOLN-69. 30¢**
- Tree to 30 ft; fruits yellow; (X).
- Mixed. **SOLN-X. 25¢**
- Dwarf Species Mixed. **SOLN-XD. 35¢**

SOLDANELLA. (sol-dan-NEL-lah)

Primulaceae. Perennial plants with nodding blue, violet or white fringed flowers; native of Alps; thrive in moist shady places in RG.

- alpica. **SOLD-1. 30¢**
- Pale blue fls in umbels; roundish lvs; 6"; HP.

SOLENANTHUS. (sol-en-AN-thus)

—sylviosus. **SOLN-J. 30¢**

Allied to Cynoglossum and Lindelofia;

- Mixed. **SOLE-X. 30¢**

SOLLYA. (SOL-yah)

Pittosporaceae.

- fusiformis. **SOLL-2. 40¢**
- Australian Bluebell Creeper. (S. hetero- blue fls in dense paniced racemes; HP.

SOLIDAGO. (sol-id-DAY-goh)

Golden Rod. Compositae. Erect perennials with yellow Goldenrod flowers, many of which are excellent border plants; do not fertilize them too much.

—odora. PLANTS ONLY

—canadensis. **Canada Golden-rod. 5-7 ft; small yellow fls in flat heads; sun. PLANTS: 55¢; 3-\$1.40**

—elongata. **SOLI-17. 30¢**

Compact flower clusters of yellow fls; 3 ft; HP

—missouriensis. **SOLI-35. 30¢**

Dwarf species; golden heads in panicles; 18"; HP.

—spectabilis. **SOLI-65. 40¢**

Dense compound heads; golden yellow; sweet scented; $2\frac{1}{2}$ ft; HP; Nev-Calif.

SOPHORA. (sof-FOH-ruh) Leguminosae. Showy or-

namental woody plants when in bloom; flow- ers in terminal panicles or racemes, followed by cylindrical or 4-winged pods. They are not hardy in the North, especially the ever- green species. The tree-like species are best increased by seeds.

—japonica. **SOPH-3. 30¢**

Japanese Pagoda Tree. Chinese Scholar Tree. **Oz. 50¢; lb. \$3.50.**

—pendula. **SOPH-3P. 30¢**

Oz. 50¢; lb. \$2.00.

—microphylla. **SOPH-4. 50¢**

N. 7. tree with white fls; (IX).

—secundiflora. **SOPH-6. 40¢**

Meal can Bean. (IV). 100 seeds **\$1.75.**

—tetrapleura. **SOPH-7. 50¢**

Small evergreen tr to 40 ft; bright golden yellow fls, 2" long; soak seeds or notch; N. Z.

—readwellii. **SOPH-11. 30¢**

(Kowhai) Small tree of rather spreading habit having Maidenhair-like lvs; fls are golden yellow, a parrot's beak shape, in clusters in spring; Aust.

—viciifolia. **SOPH-9. 30¢**

Deciduous shrub to 8 ft; bluish violet fls in racemes; hardy in North.

—Mixed Seeds. **SOPH-X. 25¢**

SMILAX. (SMYE-lax)

—herbacea. **SMIX-8. 30¢**

Carrion Flower. Slender twining shrub to 30 inches; creamy white fls in a globe similar to Primula denticulata; fruits bluish black and hold on stem well.

—Kraussiana. **SMIX-14. 50¢**

S. Af. tender climber; fol. decorative.

—glycyphilla. **SMIL-6. 50¢**

SMYRNIUM. (SMYR-3. 30¢)

—olusatrum. **SMYR-3. 30¢**

Black Lovage. Leaves are used in sal- ads; sow seed in April; 4 ft; HB, treat as HA in North.

SNAPDRAGON: see Antirrhinum.

SOLANDRA. (sol-LAND-ruh)

—grandiflora. **SOLA-2. 40¢**

Chalice Vine; (IX)..

SOLANUM

(soh-LAY-num) Solonaceae. A large gen- us to which the potato and egg plant belong. A rather confused genus; the interesting species are the ornamental berried species, such as the Jerusalem Cherry. Sow seeds of the annuals, where they are to grow; the perennials can be started indoors early or handled like other tender perennials; they make excellent berried pot plants.

—acutissimum. **SOLN-1. 30¢**

Decorative plant; bright scarlet fruits; 2 ft; TP.

—avicularae. **SOLN-9. 35¢**

(S. lacinatum) Kangaroo Apple. Pur- plish fls, 1" across in cymes; yellow fruits; ornamental; 10 ft shrub; N. Z. $\frac{1}{4}$ Oz. **65¢.**

—Capsicastrum. **SOLN-10. 30¢**

Scarlet or orange pointed fruits, $\frac{1}{2}$ " ac; 2 ft; TP; sow seed in pans of light soil.

—carolinense. **SOLN-11. 40¢**

—integrifolium. **SOLN-27. 30¢**

Scarlet or Tomato Egg Plant. Fruits 2" across; scarlet; ornamental. $\frac{1}{4}$ Oz. **65¢.**

—Khasiana. **SOLN-29. 35¢**

—marginatum. **SOLN-32. 30¢**

Yellow globose fruits, $1\frac{1}{2}$ " across; spiny shrub; 4 ft; TSH.

—nigrum. **SOLN-35. 50¢**

Black fruits used in preserves, pies, etc; forms known as Garden Huckleberry, Wonderberry; $2\frac{1}{2}$ ft; TA.

—Pseudo-Capsicum. **SOLN-36X. 30¢**

Jerusalem Cherry. Scarlet or yellow fruits; 2 ft; TP; the popular Xmas Cherry pot plant of the florist.

—nanum. **SOLN-36N. 30¢**

Small compact plant; red berries. **Oz. 90¢**

—Clevelandii. **SOLN-36C. 30¢**

Select foliage; bright red fruits; 18".

—Hendersonii, New Paterson. **Oz. \$2.25.**

—Solanum. **SOLN-36P. 30¢**

Orange-red oval fruits; nice for pots; 15".

—Hlavacek's Masterpiece. **SOLN-36H. 30¢**

Compact 15" plants; bright red fruits.

—tenuifolium. **SOLN-46. 35¢**

If you want some pretty colored Corn you should grow the Giant Strain of Rain- bow Corn; just about every color!

SOPUBIA.

- angolensis.** **SOPU-1. 40¢**
Dainty pink fls; grayish lvs; erect; (IX).
—**leprasa.** **SOPU-4. 40¢**
Deciduous branched shrubby plant; 4 ft; pale gray, almost white, lvs; pretty pure white fls; found growing in water and marshy ground; very decorative; rare; S. Rhodesia; (IX).

SORBARIA.

(saur-BAY-ri-ah)

False Spirea. Rosaceae. Ornamental shr from China.

- lomeniosa.** **SORA-11. 30¢**
18 ft; Himalayas. c.s. Oz. 65¢; lb. \$4.50.
—**sorbiifolia.** **SORA-9. 30¢**
6 ft; (IV). c.s. Oz. 75¢; lb. \$6.50.

SORBUS

(SOR-bus) Mountain Ash. Rosaceae. Deciduous trees, hardy in the North; thrives in dry soils; sow seed when ripe or stratify over winter.

- americana.** **SORB-2. 30¢**
American Ash. Tree to 30 ft; hardy.
—**Ar'a.** **SORB-5. 30¢**
White Bean Tr. 50 ft. c.s. Oz. 90¢; lb. \$8.00.
—**Arcuparia.** **SORB-6. 30¢**
European Mt. Rowan. c.s. Oz. 80¢; lb. \$7.50.
—**commixa.** **SORB-9. 50¢**
Tree to 30 ft; fls $\frac{1}{2}$ " ac; Japan.
—**domestica.** **SORB-13. 50¢**
Service Tree. (VII). c.s. Oz. \$1.00; lb. \$12.00.
—**sc'pulina.** **SORB-29. 30¢**
Mt. Ash. Montana; (III). Oz. 50¢; lb. \$4.50.
—**terminalis.** **SORB-32. 30¢**
Wild Service Tr. c.s. Oz. 70¢; lb. \$6.50.
—**Vilmorinii.** **SORB-34. 50¢**

SPARANTHERA.

- species (?)** **SPAT-1. 30¢**
California grown seed.

SORREL: see Rumex.

SPARAXIS

(spuh-RAX-iss)

- hybrid x Strepenithera.** **SPAX-1. 40¢**
—**Mixed.** **SPAX-X. 30¢**
Grandiflora, tricolor and albiflora, mixed.

SPARTIUM.

(SPAHR-tee-um)

Spanish or Weaver's Broom. Leguminosaceae. Ornamental shrubs from So. Eu. and hardy in (VI) zone. Easily increased by seed sown during Jan. or Feb; grow seedlings on in pots till planted to permanent positions.

- junceum.** **SPAM-2. 30¢**
Spanish Broom. (Genista junceum) (VII). Oz. 50¢; lb. \$2.00.
—**scoparium:** see *Cytissus scoparius*.

SPATHODEA.

(spath-OO-dee ah)

Bignoniaceae. Tropical African evergreen trees suitable for the far South; they are very beautiful when in flower.

- campanulata.** **SPAR-2. 50¢**
Orange-crimson fls; nice street tree for the South. Oz. \$1.50.
—**nicotia.** **SPAR-8. 50¢**
Nile Flame Tree. Orange-red fls; glossy bright foliage; pretty; (IX); seed very light. 1/8 Oz. \$1.25.

SPECULARIA.

(spek-yew-TAY-ree-uh)

Campanulaceae. Annuals resembling Bell-flowers; excellent for the rockery, border or for edging; easily grown from seed.

—VIOLETT.**SPEC-3V. 30¢**

NEW A greatly improved form of this annual; deep violet-blue fls with white centers, borne in such profusion throughout the summer to completely cover the foliage. Excellent for beds, edging or for sowing in the RG.

—Speculum-Veneris.**SPEC-3. 25¢**

Venus Looking Glass. Edging; violet-blue, bell-shaped fls, 1" across; July-Sept; 1 ft; space 6"; HA.

SPHAERALCEA.

(sfeer-RAL-see-uh)

- rivula-is.** **SPHR-12. 35¢**
(Phymosia) Globe-Mallow. Very hardy; pink or white fls 2" across; 6 ft.

SPHEDAMNOCARPUS.

- fu-r'ie-s.** **SPHD-2. 40¢**
Climbing shrub; glossy green leaves; (IX); lovely.

- purpureus.** **SPHD-1. 40¢**
Climbing shrub; fls like rock roses; a bright yellow, $\frac{1}{2}$ " across; fruits winged and bright pink; very attractive; (IX); watch out for irritating hairs on seed.

SPHENOSTYLIS.

- ra-gi-ata.** **SPHE-5. 30¢**
From South Africa.

SPONDIAS.

Anacardiaceae. Tropical trees grown for their edible fruits; frost free regions.

- magnifera.** **SPON-12. 40¢**
Hog-Plum. Indian tree. Oz. \$1.25.

SPRAGUEA.

(SPRAYG-ee-ah)

Pussy Paws. Portulacaceae. Small alpine plants with rosettes of thick fleshy evergreen leaves and heads of fluffy pink flowers on prostrate stems; excellent in the rockery in light shade.

- multiceps.** **SPRG-1. 30¢**
Dense heads, rose-purple fls; 6"; Wash-Wyo.

STACHYS.

(STAY-kis)

Labiatae. Betony, Woundwort. Those listed are mainly border plants.

- olympica.** **STAC-16. 30¢**
(S. lanata) Lamb's Ear. FP; $1\frac{1}{2}$ ft; valuable bedding pl; soft white woolly lvs. Oz. 30¢

STACHYTARPHETA.

Verbenaceae Shrubs and perennials from warm regions.

- jamaicensis.** **STAA-3. 40¢**
(S. indica) TA; 4 ft; fls blue, in spikes 18" long.

SQUASH

Listed here are some of the rarer foreign types, not usually found in the regular seed catalog. If you have a vegetable garden, by all means try at least one.

- ce-h'e-us.** **SQUA-1C. 30¢**
Italian Marrow Squash; extra early; deep green. Oz 50¢.
—**Nap'es.** **SQUA-2. 25¢**
Italian summer Squash of marrow type; excellent when stewed with tomatoes, etc. Oz. 45¢.

JAPANESE SQUASH:

- Cha-ku-ki.** **SQUA-UK. 25¢**
Shape like a Chestnut; flavor of Chest-

nut; very popular for its earliness and excellent quality.

—**Futtsu Early Black.** **SQUA-FB. 25¢**
Flat globe-shaped, not too warted; flesh very thick orange of high quality.

STAPHYLEA. (staf-il-LEE-uh)

Bladder-Nut. Staphyleaceae. Ornamental shrubs or small trees with white flowers in terminal panicles and bladder-like fruits; most are hardy in the North; prefer partial shade, moist rich soil; sow seed when ripe or stratify till spring.

—**pinnaia.** **STAP-8. 30¢**
European B. Fls in nodding racemes, 5" long; fruits 2" long. **Oz. 50¢; lb. \$4 00.**
—**trifolia.** **STAP-9. 40¢**
American Bladder-nut. 15 feet high.

STAR OF TEXAS: see **Zanthisma.**

STATICE: This genus has now been reclassified and all the species formerly listed under it are now under *Amiera* or *Limonium*, which see. (**STAT-iss-ee**).

STENANTHEIUM. (sten-AN-thi-um)

Liliaceae. Tall plants for borders or wild garden.

—**robustum.** **STEA-9. 50¢**
Feather Fleece. Extremely ornamental perennial; long delicate fls, late summer; open damp or dry places; 5 ft. **PLANTS:** 75¢ each; 3 for \$1.60.
—**velutina.** **STEN-IV. 30¢**
Leaves pubescent underneath.

STENOCACTUS. (sten-oh-KAK-tus)

Cactaceae. Much like *Echinocactus*; Mex. (WS, CG) Mexico; ordinary soil compost.

—**albatus.** **STEC-4. 50¢**
6" diam; white fls, ¾" long; Mexico.
—**lamellosus.** **STEK-22. 75¢**
Blue-green stems.
—**laratus.** **STEC-24. 75¢**
—**Ochoterenai.** **STEC-30. 75¢**
Globose, 3" high, 4" diam; white to rose-pink fls.
—**Vanpelianum.** **STEC-39. 50¢**
2" high, 3" diam; pale yellow fls

STENOCHILUS.

—**longifolius.** **STES-15. 50¢**
15 ft; Australia.

STENOLOBIUM. (sten-oh-LOH-be-um)

—**stans.** **STEN-1. 25¢**
Yellow Elder or Yellow Bells. An erect shrub or small tree with showy bell-shaped yellow fls borne in clusters; native along Gulf Coast to Fla where it is a popular ornamental.

STEPHANANDRA.

Rosaceae. Shrubs from Asia; fls in terminal panicles or corymbs.

—**incisa.** **STEH-6. 35¢**
8 ft; Japan. Ask for lb. prices.

STEPHANOTIS. (steff-uh-NOH-tiss)

—**floribunda.** **STEO-2. 40¢**
Madagascar Jasmine; (X). 100 seeds \$5.00.

STERCULIA.

—**colorata.** **STER-4. 30¢**
Ornamental tree; (VIII). Oz. 65¢.
—**plataniifolia:** see **Firmiana simplex.** The Chinese Parasol Tree or Phoenix Tree.

STEVIA: see **Piqueria trinervia.** The flor-

ist **Stevia.**

STEWARTIA.

(stew-ART-ee-uh)
N. Amer. and Asian shrubs and trees, with showy white fls; ornamental; fairly hardy in the N; mixture of peat and loam both; thrive under similiar conditions as *Rhododendron*; rather rare in cultivation; acid soils; abhors lime; soak seed 2-3 days but stir often.

—**koreana.** **STEW-1. 50¢**
Korean Tree to 50 ft.
—**monadelphica.** **STEW-4. 50¢**
Japanese tree to 80 ft.
—**Pseudo-Camellia.** **STEW-7. 30¢**
Tree to 50 ft; fls 2½" across, with white stamens and orange anthers.

STILLINGIA.

—**sylvatica.** **STIL-1. 30¢**
Queen's Delight. Tassel-like fls; 2½ ft; (VII); HP.
—**sebifera:** see **Sapium sebiferum.**

STIPA.

(STY-pa)
Spear or Feather Grass. Gramineae. Perennial ornamental grasses, with awn-like spikelets borne in panicles and very popular as an ornamental grass.

—**pennata.** **STIP-3. 20¢**
Very pretty; tufted to 3 ft; dense plumes; HP.
—**semibarbata.** **STIP-7. 35¢**

STIZOLOBIUM.

—**prurifum.** **STIZ-6. 40¢**
Cowage, Cowitch. (X). 100 seeds \$3.00.
40 seeds per ounce.

STOCKS: see **Mathiola** and **Malcomia.**

STOKESIA.

(stoh-KEEZ-ee-uh)
Stoke's Aster. Compositae.

—**laevis v. Blue Moon.** **STOK-IBM. 25¢**
A pretty HP Compositae, requiring some protection in the N; easily grown from seed; well drained soil best; 18"; lavender-blue fls. ¼ Oz. 90¢.

STRANGEA.

—**cyanchica+pa.** **STRY-8. 50¢**
Three feet; Australia.

STRANVAESIA.

(strau-VEEZ-ee-uh)
Very hardy evergreen shs from China; excellent fol effect in spring; the bright red fruit clusters stay on nearly all winter.

—**Davidiana.** **STRA-2. 30¢**
Sn to 15 ft; the best known species.

STRAWBERRY

The varieties offered here are grown from seed each year and fruit the same year; they are planted very much in Europe. It may be best to sow the seed late in the fall to germination in spring; seed sown early will produce plants with fruit the first year. plants are most compact in growth; fruits smaller than common Strawberries but of a delicious flavor. They produce fruit nearly all summer.

—**Baron Solemacher.** **STRW-2Y. 20¢**
Yellow fruited variety. Oz. \$2.50.
—**Red Fruited** **STRW-2R. 20¢**
Oz. \$2.50.
—**Harzland.** **STRW-2H. 25¢**

A new large red variety.

—**Rugen.**

Large red fruits. Oz. \$2.00. **STRW-2G. 20¢**

—**Mixed.**

STRW-2X. 20¢

STRELITZIA.

(strel-LITT-see-ah)

Bird-of-Paradise Flower. Musaceae. So. African perennials with banana-like leaves and odd shaped fls; hardy in the far S and good tub plant in N; sow seed in good well drained soil, in pans and hold in GH; give bottom heat; needs warm temperature to germinate; nick seeds.

NOTE: Strelitzia seed is not plentiful and deliveries uncertain; you have a good chance of not getting prompt delivery.

—**augusta.** **STRT-2. 50¢**
Bird-of-Paradise Flower. GH; (IX). 100 seeds \$6.00.

—**Nicotai.** **STRT-3. 50¢**

To 18 ft; white fls with blue tongue; lvs 4 ft wide; (IX).

—**parvifolia.** **STRT-4. 50¢**

Bright orange; blue tongue; bracts green, edged red. 2" long.

—**juncea.**

STRT-4J. 75¢

—**Reginae.**

STRT-6H. 75¢

This is much taller; 3 ft; fl-stems to 7 ft; lvs rounded, not pointed; fls darker orange; seed takes 2-3 mo. to germinate. 100 seeds \$15.00.

STREPTOCARPUS

Cape-Primrose. Gesneriaceae. They are of easy culture and thrive in a cool GH; sow seeds in Feb. or March for flowering plants the following autumn and winter. (strep-toh-KAUR-pus).

—**WIESMOOR STRAIN.** **STRP-12. \$1.00**

NEW. This formula mixture contains 18 distinct colors and bicolors, veined and blotched designs; seedlings of 6-8 months produce 15-25 wiry stems at a time, each bearing several fls (many four). Fls very large, most daintily fringed and waved.

—**Hybrids.**

STRP-4. 35¢

Gold Medal Strain. Excellent, includes all shades in well balanced proportions. 1/8 Oz. \$18.00.

—**polyanthus.**

STRP-7. 50¢

—**Rexii.**

STRP-8. 50¢

Blue or mauve flowers.

—**Wendlandii.**

STRP-10. 50¢

Violet-blue flowers; 2 ft.

STREPTANTHERA.

—**cuprea.**

STRH-1. 35¢

S. African cormous plant belonging to the Ixia family; (IX); HBb.

STREPTOPUS.

Twisted-Stalk. Lilaceae. Perennials with creeping rootstalks; easy and fine wild garden plant.

—**roseus.**

STRE-7. 30¢

Rosy Twisted-stalk. Stem zig-zag; dull purplish pink fls; May-June; red fr; shade; 9-18". **PLANTS: 60¢ each; 3-\$1.60.**

STROBILANTHES.

..(stro-bil-ANT-thes)

Acanthaceae. Plants and shrubs or tropical Asia, grown in the open in the South; the flowers and foliage are very attractive.

—**isophyllus.**

STRO-4. 30¢

Willow-like leaves; pinkish fls; 3 ft.

STROPHANTHUS.

Apocynaceae. S. Af. shrubs allied to Nerium; fls showy; in terminal corymbs.

—**gratus.**

100 seeds \$4.00.

STRH-1. 40¢

STYLIDIUM.

Stylidiaceae. Plants and sub-shs with basal or tufted lvs; fls in racemes, panicles or cymes; Australia.

—**graminifolium.**

STYD-4. 40¢

Perennial; 2 ft; yellowish fls.

STYLOMECON.

—**heterophylla.**

STYL-8. 30¢

Attractive Poppy-like plant, native of California; sunny spot, light well drained soil; satiny Poppy-like fls, orange-scarlet, with dark maroon centers; July-Sept; 18"; HA.

STYPHELIA.

—**vireidis.**

STYP-2. 40¢

Five-Corners. Greenish tubular fls; 6 ft; Australia.

STYRAX.

(STYE-rax)

Styraceae. Shrubs and trees with showy white fls in racemes, followed by fruits; few are hardy in the N; light soils; sow in all in pans of loamy soil and lvs, outdoors; some seed takes 2 yrs.

—**americana.**

STAX-1. 25¢

Hardy in (IV) zone; 10 ft.

—**japonica.**

STAX-6. 25¢

Fragrant fls; 20 ft; (IV). Oz. 50¢; lb. \$3.25.

—**obassia.**

STAX-8. 25¢

Fragrant fls; 30 ft; (IV); Japan. Oz. 75¢; lb. \$4.50.

—**Mixed.**

STAX-X. 25¢

SUTERA: see *Chaenostoma Burkeana*.

SUTHERLANDIA.

(suther-LAND-ee-uh)

—**frutescens.**

SUTH-1. 30¢

S. Af. shrub to 5 ft; whitish, lacy, compound lvs; clusters of glowing orange-red fls; inflated bronze pods; (VIII); a good tub plant, flowering all summer.

SUTTONIA.

Myrsinaceae. N. Z. shs and trs, hardy in the S; ornamentad; similar to Myrsine.

—**australis.**

SUTT-2. 35¢

Small N. Z. tr; yellowish green lvs and red twigs; black fruits.

SWAINSONIA.

(swain-SOH-nuh)

—**galegifolia.**

SWAN-3. 50¢

Swainsona Pea. A shrub to 4 ft; fern-like foliage; dark pink to mauve pea-fls; Australia.

SWEET BASIL: see *Ocimum basilicum*.

SWEET FENNEL: see *Foeniculum vulgare*.

SWEET MARJORAM: see *Origanum*.

SWEET PEAS

(*Lathyrus odoratus*) Leguminosae. In the North they should be planted very early in the spring but in the South, plant late in the fall; sow direct to the soil, spacing them about 3" apart; do not allow to go to seed as they will stop flowering. One of the common mistakes in growing them is in not giving them a strong support at the base of the wire, this swings back and forth, usually too far thus nulling the roots loose; be sure, too, to provide a support as soon as they

are 1" tall; they germinate in about 10 days. The varieties offered are the very best in their color.

BUSH TYPE SPENCERS:

- Little Sweetheart.** SPEA-5S. 50¢
A new and entirely different class of Sweet Peas; upright in growth, plants are 8 inches high and in a perfectly rounded bush; mixed colors. Oz. \$2.50.

SPENCER VARIETIES: The most popular for garden growing, especially in the North the (V) to (III) zones. The varieties listed are the best obtainable.

- Bonny Briar.** SPEA-1BB. 25¢
Large rose-pink; excellent variety.
—**Burpee Best White.** SPEA-1BW. 25¢
White seeded; a very good white variety.
—**Capri.** SPEA-1C. 25¢
Clear silver-blue; strong stems.
—**Charming.** SPEA-1CM. 25¢
Pretty, flushed rosy cerise.
—**Chieftain.** SPEA-1CH. 25¢
Pure satiny mauve.
—**Elstree.** SPEA-1EL. 25¢
Bright pink on cream, shaded darker.
—**Excelsior.** SPEA-1EX. 25¢
Dandy scarlet-orange, wings a darker shade; strong stems.
—**Flagship.** SPEA-1F. 25¢
Deep navy-blue shaded darker; nice.
—**Flamingo.** SPEA-1F. 25¢
An orange-scarlet-cerise; one of the most attractive varieties.
—**Gigantic.** SPEA-1G. 25¢
Fine white; black seeded; GM winner.
—**Gold Crest.** SPEA-1GC. 25¢
Orange tinted salmon with darker shading; very showy.
—**Grand Slam.** SPEA-1GS. 25¢
Beautiful cerise-scarlet, suffused.
—**Mastercream.** SPEA-1M. 25¢
Cream; black seeds; this is an excellent cream with stiff stems.
—**Mrs. R. Bolton.** SPEA-1MB. 25¢
A new deep salmon-pink; very large fls.
—**Mrs. A. Searles.** SPEA-1MS. 25¢
A bright salmon-cerise.
—**Patricia Unwin.** SPEA-1P. 25¢
Salmon-pink suffused gold.
—**Pi-k Frills.** SPEA-1PF. 25¢
Rich salmon-pink on cream; a GM winner; excellent variety.
—**Radar.** SPEA-1R. 25¢
Best salmon-pink; rich coloring.
—**Red Boy.** SPEA-1RB. 25¢
Pure rich crimson; long stems; vigorous.
—**Welcome.** SPEA-1W. 25¢
Dazzling scarlet; strong stems.
—**What Joy.** SPEA-1WJ. 25¢
Deep rich cream; white seeded.
—**Windsor Blue.** SPEA-1WB. 25¢
Clear mid-blue; excellent color.
—**Youth.** SPEA-1Y. 25¢
White, edged rose-pink.
—**Formula Blend.** SPEA-1FX. 25¢
PRICES: All above—Oz. 35¢; ¼ lb. \$1.20.

EARLY OR WINTER FLOWERING:

This group is equally satisfactory for garden or greenhouse growing. The varieties listed are the very best for greenhouse culture; all listed under their original names.

Greenhouse growing: For Xmas plant July 1st by planting 2-3 seed in 2½" pots, germ. in cool shady spot and transplant as soon as well stratified; field mice like Sweet Pea seed.

- American Beauty.** SPEA-2A. 25¢
Rich crimson-rose, shaded deep crimson.

- Annie Laurie.** SPEA-2AL. 25¢
Pure rose with white base; vigorous.
—**Ball Blue Supreme.** SPEA-2BS. 25¢
The best clear deep blue.
—**Ball's Rose Supreme.** SPEA-2BR. 25¢
Large wavy silvery rose-pink.
—**Blue Boy.** SPEA-2BB. 25¢
Beautiful dark blue.
—**Burpee's Orange.** SPEA-2BO. 25¢
Clear orange, shaded.
—**Cascade.** SPEA-2C. 25¢
Best white; white seeded.
—**Elk's Purple.** SPEA-2EP. 2¢5
Large reddish purple; long stems.
—**Giant Pink.** SPEA-2GP. 25¢
Pink blended with soft rose; more intense on the edges.
—**Grenadier Improved.** SPEA-2G. 25¢
Dazzling crimson-scarlet; vigorous.
—**Kate Smith.** SPEA-2K. 25¢
Scarlet suffused rose; long stems.
—**Mars.** SPEA-2M. 25¢
A rich deep crimson.
—**Mrs. H. S. Reddick.** SPEA-2R. 25¢
Brilliant flesh pink, suffused salmon; immense flowers.
—**Orange King.** SPEA-2GK. 25¢
Glowing intense orange with crimson shading.
—**Oriental.** SPEA-2N. 25¢
Deep cream; black seeded; large flowers.
—**Princess Blue.** SPEA-2PB. 25¢
Rich bella donna blue; vigorous.
—**Shirley Temple.** SPEA-2ST. 25¢
Delightful soft rose-pink, fluted; long stems.
—**Supreme Orange.** SPEA-2S. 25¢
(Zvolanek's) Cerise wings, orange standards.
—**Twilight.** SPEA-2T. 25¢
A fine lavender.
—**Zvolanek's Salmon.** SPEA-2Z. 25¢
Salmon-cerise; large flowers; vigorous.
—**Florist Blend.** SPEA-2X. 25¢
PRICES: Any of above—Oz. 50¢; ¼ lb. \$1.50; lb. \$3.50.

SPRING FLOWERING CUTHBERTSON:

A new intermediate season type, whose main recommendation is heat resistance. The colors are plainer and not as good as in the Spencers. They should be grown in the South where the regular types are not satisfactory.

- Finest Mixed.** SPEA-3X. 25¢
—**Formula Blend.** SPEA-3X. 25¢
Especially grown from separate colors proportioned according to our own formula for maintaining the best color range. Oz. 80¢; 4 oz. \$1.75.

- Butterfly Hybrids.** SPEA-4B. 25¢
A very gay and striking blend of striped colors in an unbelievable number of attractive color combinations. This variety has excellent vigor with four huge blooms on a strong stem. A new and unusual variety that should be grown in every flower garden. ½ oz. 50¢.

FLORIBUNDA CLASS:

This new strain from the early flowering Cuthbertson type possesses all the good points of the type but will under proper conditions produce 5 or more blooms per stem and of better formed flowers; extremely vigorous; long stemmed; heat resistant and suitable for the South.

- Catherine.** SPEA-5C. 25¢
Beautiful salmon-rose on cream ground.
—**Evelyn.** SPEA-5E. 25¢
Best salmon on cream ground.
—**Frank G.** SPEA-5F. 25¢

- Best deep lavender.
—Kenneth. **SPEA-5K. 25¢**
 The best crimson in this type.
—Robert. **SPEA-5R. 25¢**
 Best blue with lavender cast.
—Formula Blend. **SPEA-5X. 25¢**
 This is not a mixture but a carefully made blend. **Oz. 85¢; 4oz. \$1.90.**

PERENNIAL SWEET PEAS: see *Lathyrus*.

SWEET WILLIAM: see *Dianthus barbatus*.

SWERTIA.

- chiretta.** **SWER-1. 40¢**
 Yellow fls; a useful medicinal herb. **Oz. \$1.00.**
—bimaculata. **SWER-2. 25¢**
 White, tinted green and dotted black and yellow.
—multicaulis. **SWER-4. 25¢**
 From Himalayas; 3 inches; HP.
—speciosa. **SWER-9. 30¢**
 White fls with dark blotches; Himalayas; HP.
—Mixed. **SWER-X. 25¢**

SWIETENIA.

- macrophylla.** **SWIE-2. 35¢**
 Mahogany. Meliaceae. Tropical evergreen trees; dark red wood; the Mahogany of commerce.
—Mahoganii. **SWIE-3. 50¢**
 Mahogany. 65 seeds to oz. 100 seeds \$3.00.

SYAGRUS.

- campestris:** see *Cocos campestris*. Palm.
—Weddelliana. **SYAG-5. \$1.00**
 Sow in January in flats; a good pot plant for GH; 100 seeds \$6.00. Orders should be placed well in advance at least 6 months.

SYMPHORICARPOS. (sim-for-ik-KARP-os)

- Campanulaceae. Biennials and perennials resembling Campanulas; fls white violet, nodding, bell-shaped; grow as for Campanulas.
—orbiculatus. **SYMD-8. 50¢**
—albus. **SYMC-2. 30¢**

SYMPLOCOS. (sim-FLOH-kos)

- Sweet-leaf. Symplocaceae. Trees and shrubs of ornamental value; seeds are slow to germinate.
—myrtacae. **SYMP-4. 50¢**
 From Japan.
—paniculata. **SYMP-1. 30¢**
 Deciduous tree; 30 ft; white, fragrant fls; blue fruits; HTr. **Oz. 60¢; lb. \$4.00**
—thaefolius. **SYMP-3. 30¢**

SYMPHYANDRA.

- Campanulaceae. Biennials and perennials resembling Campanulas; white or violet fls, nodding, bell-shaped. Grow as for Campanulas; good sandy loam bts.
—Hofmannii. **SYMD-3. 30¢**
 White or violet nodding fls $1\frac{1}{2}$ " long in terminal panicles; 2 ft; Bosnia; (TV).
—orbiculatus. **SYMP-8. 50¢**
 (S. racemosa) Waxberry. **c.s. Oz. 75¢; lb. \$11.00.**

SYNCARPIA. (syn-CAR-pee-ah)

- Myrtaceae. Australian ornamental trees with white flowers; hardy in the South.
—glomulefera. **SYNC-1M. 50¢**
 Turpentine Tree. Handsome tr to 150 ft; warm regions; showy cream fls; good foliage; curiously formed seed cases.

SYNTHYRIS.

(SINTH-uh-riss)

- Scrophulariaceae. Native N. Amer perennials with basal leaves and wheel-shaped, 4-lobed fls in spikes or racemes; for border.
—Hendersonii. **SYNT-3. 30¢**
 Sky-blue fls, $\frac{1}{4}$ " long; RG; 3 ft; HP.
—nova. **SYNT-12. 50¢**
 Blue fls; found at 10,000 ft; Utah; HP.
—Paysonii. **SYNT-13. 50¢**
 Alpine; found at 9,500 ft; Idaho.
—rubra. **SYNT-22. 40¢**
 White woolly leaves tinged red; (III); HP.

SYRINGA.

(sihr-RIN-guh)

- Lilacs. Oleaceae.
—amurensis v. japonica. **SYRI-2J. 35¢**
 Manchurian Lilac. **Oz. \$1.00.**
—vulgaris. **SYRI-32. 30¢**
 Lilac. Seed saved from the best named varieties with some good reds. **Oz. c. s. 50¢; lb. \$3.00.**
—flore albo. **SYRI-32F. 30¢**
Oz. 75¢; lb. \$7.00.

SYZYGium.

- Myrtaceae. Tropical trees and shrubs similar to Eugenia.
—Cumini. **SYZY-5. 50¢**
 Jamboam-Plum. Tree to 80 ft; fruit edible; E. Indies; far South. **Oz. 95¢.**

TABEBUIA.

(tab-eh-BOO-yuh)

- Bignoniaceae. Tropical evergreen trees and shrubs; they are very beautiful; thrives in rich soil; (X).
—pallida. **TABE-4. 40¢**
 Tree to 50 ft; fls 3" long; evergreen; (X); tropical.

TACCA.

(TAK-ah)

- Taccaceae. A curious and interesting tropical genus as well as ornamental; excellent pot plants or out doors in far S; fls striking.
—cristata. **TACC-3. 40¢**
 GH plant; basal lvs, 2 ft. long, 6" wide; dark purple green.

TALINUM.

(tah-LY-num)

- Flame Flower. Portulacaceae. Many small fleshy perennials with erect clusters of pink, red or yellow flowers. Some hardy, others grown in tubs indoors during the winter.
—okanogense. **TALI-4. 40¢**
 A wee plant $\frac{1}{2}$ " high, covered with $\frac{1}{4}$ " pearly fls; HP.
—paniculatum. **TALI-5. 25¢**
 Red to yellow fls in panicles; 2 ft; (IX).

TAAUAMA.

Magnoliaceae. Tender evergreen trees of Asia and S. America.

- Hodgsonii.** **TALA-8. 50¢**
 Tree to 60 ft; fls terminal to 6" ac, cup-shaped and spice-like fragrance; the seed should be fresh and orders will be held till they arrive.

TAMARINDUS.

(tam-ah-RIM-dus)

- Tamarind. Leguminosae. Tropical evergreen trees grown in the far South for ornament; the fruits are edible and used in drinks. Best in deep rich soil with plenty of moisture.
—indica. **TAMA-1. 40¢**
 Tamarind. Tall tree; pale yellow fls. 1" across; (XI); germinate seeds with bottom heat.

TAMARIX.

(TAM-uh-ris)

Tamariaceae. Deciduous trees and evergreen trees and shrubs; heath-like lvs; will stand salt sprays; ornamental.

—gallica.

TAMX-7. 30¢

French Tamarisk. (V); cover seed lightly. Oz. 50¢; lb. \$2.00.

TANACETUM.

(tan-ah-SEE-tum)

Tansy. Compositae. Annuals and perennials grown as a medicinal herb as well as ornament.

—balsamita: see *Chrysanthemum Balsamita*.

Old-fashioned herb; yellow daisy-like fls on 2-3 ft stems; young lvs in spring used in salads; has a minty flavor.

—Herderi.

TANA-4. 40¢

Tansy. An English type.

—vulgare.

TANA-8. 25¢

Common Tansy. Herb; 3 ft; HP.

TARCHONANTHUS.

(tar-sho-NAU-thus)

—camphoratus v. *litakunsis*. **TARC-1. 30¢**

Wild Sage. Shrub; masses of pale yellow fls; seeds in a cottony ball; very attractive; S. Rhodesia; (IX).

TARRAGON: see *Artemisia Dracuncul.***TAXODIUM.**

(tax-OH-dee-um)

Bald Cypress. Taxodiaceae. Trees with needle-like leaves and fls in catkins. In the S sow seeds in December or very early spring or stratify in sand or peat for 30-60 days; mulch seed beds; germinates in 40-90 days.

—distichum.

TAXO-2. 30¢

Bald Cypress. (IV). Oz. 40¢; lb. \$3.00.

TAXUS.

(TAX-sus)

—baccata.

TAXU-1. 30¢

English Yew. Sow seed in spring.

—fastigiata.

TAXU-1F. 35¢

Oz. 60¢; lb. \$3.50.

—pyramidalis.

TAXU-1P. 30¢

—canadensis.

TAXU-3. 40¢

Ground Hemlock. Straggling sh to 6 ft.

—cuspidata.

TAXU-6. 30¢

Japanese Yew. Oz. 90¢; lb. \$9.00, c. s. It is recommended to seed in moist peat for 90 days at around 70 degrees F, then for 120 days at 40 F and then sow when seed should germinate at once.

TECOMA.

(tek-KOI-muh)

Bignoniaceae. Shrubs; fragrant yellow or orange fls; grown in South, standing but a few degrees of frost.

—grandiflora: see *Campsis grandiflora*.—radicans: see *Campsis radicans*.

—Smithii.

TECO-7. 35¢

Australian shrub; (VI). Oz. 90¢.

—stans: see *Stenolobium stans*. Yellow Bells.**TECOMARIA.**

(tek-oh-MAY-ree-uh)

Bignoniaceae. Partially climbing evergreen shrubs with fls in dense terminal racemes or panicles; (X).

—capensis.

TECM-2. 40¢

(*Bignonia c.*) Cape Honeysuckle. Fls orange-red, followed by fruits; (IX).

TECTONA.

(te-KOH-mah)

Verbenaceae. Trees of tropical regions.

—andreae.

TECT-2. 40¢

Teak. (X). 100 seeds \$7 00., 45 seeds to oz.

TELEKIA: see *Buphthalmum*.

Seed in colored packets available for school children to sell on commission.

TELOPEA.

Proteaceae. Australian ornamental shrubs; with red flowers in dense terminal head-like racemes; (IX); see *Banksia* for lack of root hairs and planting.

—speciosissima.

TELO-4. 40¢

N. S. W. Waratah. 8 ft; fls in globular heads, 2" across; very ornamental.

TEMPLETONIA.

(temple-TOH-nee-uh)

Cocky's Comb or Red Bush.

—refusa.

TEMP-12. 40¢

W. Australia shrub with masses of red fls in winter and spring; 4-6 ft; GH; (X). 100 seeds \$2.00. Coral Bush.

TEPHROSIA

(Crocca) Leguminosae. Plants or shrubs with red, purple or white fls in racemes, followed by flat pods.

—candida.

TEPH-1. 25¢

Shrub to 10 ft; white fls 1" long; pods 4" long; India.

—pubescens.

TEPH-4. 35¢

S. Rhodesian species; (IX).

—virginiana.

TEPH-7. 30¢

Yellowish purple fls, ¾" long; Me. to Fla; HP.

Oz. 75¢.

—vogalii.

TEPH-8. 30¢**TERMINALIA.**

(ter-min-NAY-lee-uh)

Indian Almond. Combretaceae. Pretty trees grown in the far South. Flowers are in racemes or spikes; easy.

—Arjuna.

TERM-1. 40¢

80 ft tr; dark brown fruits; India. Oz.

\$1.00.

—calamansanii.

TERM-3. 50¢

Evergreen shade tree of South Seas; (X).

—myricarpa.

TERM-8. 40¢

Alucho timbered tr; dark rose fls in profusion; (X).

TETRANEMA: see *Allophyton mexicanum*.**TETRAPANAX.**

(tet-RA-pan-ax)

Araliaceae. Shrubs or small trees from warm regions.

—papyrifera.

TET-1. 25¢

Grown in the South; fls in umbels.

TETRAPATHAEA.

—tetra-dra.

TETP-1. 30¢

Slender climber with grossy lvs; fls greenish yellow; orange fruits; very showy and useful; fr. edible and relished by Pheasants; N. Z.

TEUCRIUM.

Labatae. Germander. Tender plant for the GH or far South; few hardy in North for the RG.

—Chamaedrys.

TEUC-10. 35¢

Procrumbent sh; fls in loose whorls; rose-r.

—hircanicum.

TEUC-15. 50¢

2 ft; purple or red fls in dense spikes; Caucasus.

THALICTRUM

Meadow Rue. Ranunculaceae. Perennials with flowers in panicles or racemes, without petals but with numerous drooping stamens. Some are very showy in masses in the border, others in the wild garden; easily grown, in well-drained loamy soil (thal-IK-trum).

—adiantifolium.

THAL-1. 25¢

(T. minus) Greenish yellow; fine cut foliage; 18"; HP Oz. 80¢.

—**aquilegifolium.** THAL-5. 25¢
Dainty and pretty; white fluffy or cream fls; 3 ft; HP.

—**Chelidonii.** THAL-8. 40¢
Soft lavender, purple and white fls; showy; dwarf (IX): Himalayas.
ens: 4 ft; HP. Oz. \$1.30.

—**dipterocarpum.** THAL-14. 35¢
Rose-mauve with drooping golden stamens; 4 ft; HP. 1/4 Oz. 70¢.

—**flavum.** THAL-17. 25¢
Yellow with bright yellow stamens; 4 ft; HP.

—**foetidum.** THAL-19. 25¢
Nodding greenish red fls; 3 ft; HP.

—**minus.** THAL-28. 30¢
Listed under many botanical names; 18"; fls greenish yellow; Eu. and N. Africa

—**polygamum.** THAL-36. 25¢
Tall Meadow-rue. 4-8 ft; white fls in lge clusters; July-Sept; sun; moist, open places
HP. PLANTS: 65¢; 3 for \$1.60.

—**incanum.** THAL-44. 30¢
Pure white flowers.
—**Mixed.** THAL-X. 25¢

THEA. (THEE-ah)
Theaceae. Evergreen trees and shrubs with showy white or pink nodding flowers; hardy in the (IX) zone.

sinensis. THEA-4. \$1.00
Tea. Shrub to 20 ft; lvs used for the tea of commerce; (IX).

THELESERMA. (thel-ess-SPERM-uh)
Compositae. Some 10 species of American annuals and perennials, much like Coreopsis.

—**ambiguum.** THEL-1. 25¢
Brown-Eyed-Susan. Fl-heads with broad yellow rays, 1 1/2" long; purplish disks turning brown; Colo; HP. Oz. 95¢.
—**intermedium rubro-distum.** THEL-5R. 40¢

THELOCACTUS. (thel-oh-KAK-tus)
Cactaceae. Mexican globular Cacti; fls bell-shaped.

—**bicolor.** THEK-2. 75¢
4" diam; purplish pink fls, 2" long

—**chiloensis.** THEK-5. 75¢
—**leucacanthus.** THEK-14. 75¢

Long pale straw-colored spines.

—**lophothele.** THEK-16. 50¢
10" salmon or yellow fls, 2" ac; Mex.

—**phymatothale.** THEK-23. 50¢
2" tall, 4" diam; pink, margined yellow fls 2" long; Mexico.

—**Pottsi.** THEK-25. 50¢
Globular; 3 by 5"; white fls, 1 1/2" long.

—**urcinatus.** THEK-27. 40¢
—**Wagnerianus** THEK-33. 75¢

THEMIDA.
—**australis.** THEM-1. 30¢
Kangaroo Grass.

THERMOPSIS. (ther-MOP-siss)
Leguminosae. Easily grown perennials in open sunny positions; flowers are Lupin-like, in racemes. Sow seeds in the fall or spring over heat; useful in the border.

—**Carolina T.** 3-5 ft; yellow fls in terminal raceme. May-June; very showy in masses; rich soil; open places; C-24; HP. 1/4 Oz. 60¢. PLANTS: 75¢ each; 3 for \$1.60.
—**virginiana.** THEM-5. 25¢
Very hardy perennial; 1 ft; yellow fls in racemes.

THESPESIA. (thess-PEEZ-ee-uh)
Penny Cress. Malvaceae.

—**populnea.** THES-1. 30¢
One of the "tree hibiscus" group; p evergreen tree to 25 ft. bearing yellow hibiscus-like fls, turning purple by evening; resists salt spray; good street tree.

THEVETIA. (thee-VEE-tee-ah)
Apocynaceae. Tropical trees and shrubs with large funnelform showy flowers in terminal cymes, followed by fruits, a fleshy drupe. Grown under glass in the North; will thrive in rich sandy soils.

—**peruviana alba.** THEV-1A. 25¢
White Oleander. Tree to 30 ft; white fls; fragrant.

THLASPI. (THLASP-ee)
Penny Cress. Cruciferae. Annuals and perennials, hardy in the North, with white, rose or purplish flowers; good RG plants; some have large flat ornamental pods; easy.

—**alpestre.** THLA-1. 25¢
Tufted basal lvs; fls white, tinged red; 1 ft; HP.

—**densiflorum.** THLA-9. 25¢
—**praecox.** THLA-12. 25¢

(Jankia) White fls; 1 ft; basal lvs in rosettes; HP.

—**stylosum.** THLA-15. 25¢
Rose fls in dense racemes; small alpine; H.P.

THOMSONIA.
Aracae. Tropical Indian flowering plants.
—**nepaensis.** THOM-1. 50¢
Tropical plants; 2 ft. 100 seeds \$3.00; 500 \$10.00.

THRINAX argentea: see *Coccothrinax*.

THRYALLIS. (thrye-AL-liss)
Malpighiaceae. Tropical shrub; can be grown in GH in North.

—**glauca.** THRY-3. 35¢
(Galphimia) Everblooming in Australia; fls in clear yellow, in spires; really nice tropical shrub; (X).

THRYPLOMENE.
—**australis.** THRP-2. 50¢
4 ft. Australia.
—**baeckeacea.** THRP-7. 50¢
4 ft. Australia.
—**hyporhysis.** THRP-16. 50¢
Australia.

—**Kochii.** THRP-20. 50¢
2 ft. Australia.

—**mucronulata.** THRP-26. 50¢
4 ft. Australia.

—**racemulosa.** THRP-32. 50¢
4 ft. Australia.

—**Strongylophylla.** THRP-39. 50¢
4 ft. Australia.

—**tuberculata.** THRP-45. 50¢
3 ft; Australia.

TUJIA

(THEW-jah) Arbor-Vitae, Cedar. Pinaceae. Very popular flat-leaf evergreens; very hardy. The seed germinates freely from spring sown seeds; leave seed bed till second spring; decayed wood or moist peat in seed bed is good.

—**occidentalis.** TUJ-1. 25¢
—**americana.** TUJ-2A. 25¢
—**orientalis.** TUJ-4. 25¢

Seed should be sown early in the spring

when it germinates readily.

- aurea.** THUJ-4A. 25¢
- compacta.** THUJ-4C. 25¢
- elegantissima.** THUJ-4E. 50¢
- Compact; bright yellow foliage in spring.
- Oz. 90¢; lb. \$4.50.
- pyramidalis.** THUJ-4P. 35¢
- Oz. 80¢; lb. \$2.80.
- plicata.** THUJ-10. 40¢
- gigantea, Lobbii) Giant Arbor Vitae. Alaska-Calif. Oz. \$2.00; lb. \$12.00.
- Standishii.** THUJ-15. 35¢
- Japanese A Tr to 50 ft. Oz. 90¢.

NOTE: We can supply most of the commercial species and varieties, in quantity lots; these will be listed in the next catalog which will be printed within 60 days or by January.

THUJOPSIS.

(thoo-YOR-sis)

Hiba Arbor-Vitae. Pinaceae. Pyramidal evergreen trees to 50 ft, allied to Thuja; Japan.

- dolabrata.** THUO-1. 50¢
- Ornamental; (IV). Oz. 75¢; lb. \$5.50.

THUNBERGIA.

(thun-BURJ-ee-ah)

Clock Vine. Acanthaceae. Tender climbers from tropical regions and grown in the GH to be set out doors during the summer; they can be planted out side in the South; start seeds early in February or March.

- coccinea.** THUN-3. 40¢
- Orange fls with yellow throat; heavy climber; India.
- fragrans.** THUN-5. 25¢
- Slender climber for GH; white fragrant fls 2" across.
- Gibsonii.** THUN-7. 25¢
- Twining; TP; from E. Af; orange fls 2" long; (X); GH; 275 seeds to oz.

THYMOPHYLLA.

(tye-moh-FILL-uh)

Dahlberg Daisy. Compositae. Low growing annuals and perennials from S. and C. Amer.

- tenuiloba.** THPH-1. 25¢
- An excellent bedder; 1 ft; blooms in 4 months; full sun.

THYMUS

Thyme. Labiatae. Aromatic plants with a profusion of small flowers; they all like dry sunny locations and are easily grown from seed; they are liable to winter-kill in heavy soils.

- mastachinus.** THYM-17. 40¢
- Serpyllum.** THYM-23. 25¢
- Prostrate sub-shrub; purplish fls; HP.
- coccinea.** THYM-23C. 35¢
- lanuginosus.** THYM-23L. 25¢
- Woolly Thyme. Very gray hairy lvs; does not flower well.
- vulgarus.** THYM-24. 25¢
- Common Thyme. Erect sub-shrub.
- Broad-leaf Winter.** THYM-24B. 25¢
- Also called English Thyme.
- German Winter.** THYM-24W. 25¢
- Oz. \$1.50.
- French Summer.** THYM-24S. 25¢
- An excellent garden herb.

TIARELLA.

(tye-uh-RELL-uh)

Saxifragaceae. Much like low growing Heuchera; their lvs are especially showy; they want stand too dry or sunny places; little shade best.

- co-difolia.**
- Alleghany Foam-flower. White fls in May-June; shade; (IV); 6-12". **PLANTS:**

55¢; 3 for \$1.40.

- Wherryi.** TIAR-7. 50¢
- Blooms from spring to fall; white fls flushed pink; 10"; HP.

TIBOUCHINA.

(tib-oo-KYE-nuh)

Glory Bush. Melastomaceae. Tree-like shrubs of tropical Amer; grown in GH or in the South, standing probably to 30 F.

- bicolor.** TIBO-1. 50¢
- A very choice and rare species from Brazil; (X)
- semidecandra.** TIBO-8. 50¢
- (Pleroma macranthum) Purple fls 5" ac; Brazil.

TIGRIDIA.

Tiger Flower. Iridaceae. Bulbous plants from Mexico to Chile; the bulbs should be lifted in the fall and stored like Gladiolus.

- Pavonia.** TIGR-8. 40¢
- 2½ ft; showy fls in mixed colors.

TILIA.

(TILL-ee-ah)

Basswood, Linden, Lime. Tiliaceae. Sow seeds in the fall or stratify; they thrive in any soil as long as it does not dry out.

- americana.** TILI-1. 30¢
- American Linden. Tall tr. Lb. \$1.80.
- europaea grandiflora.** TILI-6. 30¢
- (platyphyllos) Oz. 50¢; lb. \$1.20.
- platyphyllos.** TILI-70. 30¢
- Large Leaf Linden. Oz. 50¢; lb. \$2.00.
- tomentosa.** TILI-21. 30¢
- White or Silver Linden; (argentea). Oz. 50¢; lb. \$1.75.

TINNEA.

(tin-NEE-ah)

Labiatae. Herbaceous or somewhat woody plants with whorls of 2-lipped tubular purple flowers; tender in North.

- abysinnica.** TINN-1. 25¢

TIPUANA.

(tip-yew-AN-ah)

Tipu Tree. Leguminosae. S. Amer. trees with showy flowers in panicles; ornamental as well as the source for Rose-wood; (X).

- Tipu.** TIPO-1. 30¢
- (speciosa) Yellow fls followed by pods 3" long; 30 ft. Oz. 90¢.

TITANOPSIS.

These should not be watered during the winter; they are very liable to rot off during the resting period; growth April-Oct.

- setifera.** TITA-12. 50¢

TITHONIA

(ti-THOH-nee-ah) Mexican Sunflower. Compositae. Robust growing plants from Mexico; tender annuals; start seed early and transplant out doors when frost danger has passed.

ROTUNDIFOLIA: (speciosa)

- TORCH.** TITH-2T. 25¢
- The new G. M. Winner; orange-red fls; 3 ft; TA.
- Fireball.** TITH-2F. 30¢
- Brilliant scarlet flowers; 6 ft.
- Orange Vermilion.** TITH-2V. 25¢
- Glistening scarlet; flowers like large single Dahlias.
- Mixed.** TITH-X. 20¢
- diversifolia.** TITH-1. 35¢
- (Mirasolia d.) TP or TSh; 30 ft; orange-yellow fls-heads, 6" ac; Mexico.

point oved the July 1958 issue.

There are 5 pages of new listings to this

TOMATOES: Ornamental Kinds.

Small fruits with tough skin that dries and does not decay; grown much like ornamental Peppers or Cherries. **TOM-1. 20¢**

TOMATO: Garden Varieties.

—**Pondeheart.**

TOM-PH. 20¢

NEW. A new cross between Ponderosa and Oxheart; smooth large fruits with a thick flesh. $\frac{1}{4}$ Oz. 50¢.

TOFIELDIA.

Liliaceae. A genus of perennials with fibrous roots and small flowers in terminal racemes.

—**calyculata.**

TOFI-2. 40¢

TORENIA

(toh-REEN-ee-uh) Scrophulariaceae. Florida Pansies. Tropical perennials grown in the GH or as annuals in the North; in Florida they are used as a substitute for Pansies. The flowers are 2-lipped and much like Gloxinias; shady place; rich soil.

—**Fournieri.**

TOR-4. 25¢

Rich blue with golden centers; good for pots or bedding; 9"; TP. $\frac{1}{2}$ Oz. \$4.00.

—**alba compacta.**

TOR-4A. 25¢

Dense habit; white corolla, with yellow blotch; 9"; TP. $\frac{1}{2}$ Oz. \$4.00.

TORREYA.

(TORR-ee-uh)

Taxaceae. Evergreen trees native of N. America and Asia; yew-like lvs; hardy to (III); similar to Taxus.

—**nucifera.**

TORR-4. 50¢

Japanese tree hardy in (IV) zone in sheltered places; to 75 ft. **Lb. \$2.00.**

TOWNSENDIA.

(toun-SEN-dee-ah)

Compositae. Biennials and perennials resembling Asters very much; white. rose to violet fls with rays; not commonly grown but excellent for the rockery.

—**alpina.**

TOWN-1. 50¢

Charming plant with narrow silvery lvs; neat rosettes, each with an inch-wide daisy in the middle; rare.

—**exscarpa.**

TOWN-2. 25¢

Stemless, 1" tall; mauve with yellow disk; RG; pretty; HP.

TRACHELIUM.

(trak-KEEL-ee-um)

Campanulaceae. Throatwort. Perennials form the Medit. region; blue or purplish fls in dense terminal heads.

—**caeruleum.**

TRAH-3. 30¢

Deep blue fls; like Valerian; GH in N; (VI); 3 ft.

TRACHELOSPERMUM.

(trak-el-oh-SPERM-um)

Apocynaceae. Twinning evergreen vines hardy only in the S.

—**fragrans.**

TRAC-3. 25¢

White fls; pods 9" long; tall climber; TP. handsome broad lvs; large white scented fls patched yellow in center; 125 seeds to ounce.

—**jasminoides.**

TRAC-4. 50¢

Star or Confederate Jasmine. (IX); GH.

TRACHYCARPUS.

(trak-ik-KARP-us)

Palmaceae. Windmill Palms. Natives of Asia and of medium growth; they are probably the hardest Palms.

—**Fortunei.**

TRAP-3. 35¢

Windmill Palm. (VIII). **Oz. 70¢; lb. \$4.00.** (Chamaerops Excelsa); 75 seeds to oz.

TRACHYMENE.

(trak-KIM-en-ee)

Umbelliferae. Australian plants having fls in white or blue, in simple umbels; sow in spring where they are to grow or they can be grown in the GH during winter for spring planting.

—**caerulea.**

TRAH-1. 25¢

(Didiscus caerulea) Blue Lace Flower; 2 ft HA; start indoors early in April and set out as soon as frost has passed; soil fairly rich.

TRADESCANTIA.

(trad-es-KANT-ee-ah)

Spiderwort. Commelinaceae. Perennials with blue, rose, purple and white flowers in umbels; grown indoors or in hanging baskets or they can be grown in the borders.

—**Beauty Blend.**

TRAD-X. 20¢

Hardy species; 3 ft; HP.

TRICHINIUM.

Amaranthaceae. Plants from Australia and suitable for warm regions or the GH in N.

—**Manglesii.**

TRIN-20. 50¢

2 ft; Australia.

TRICHOCEREUS.

(trik-oh-SEER-ee-us)

(Cactaceae) S. Amer; erect or procumbent; formerly in Cereus.

—**chiloensis.**

TRIC-9. 50¢

TRICHOSANTHES.

(trik-os-ANTH-eez)

Climbing Gourd. Fruit to 3 ft long, coiled snake-like; male and female plants; warm, sunny spots; try starting seed in small pots; transplant in June.

—**Angina.**

TRIH-1. 40¢

Serpent, Snake or Club Gourd. Climber; long fruits; interesting to children.

TRICHOSPORUM.

(tri-KOS-poh-rum)

Gesneriaceae. (aeschynanthus) Excellent hanging plants for the warm GH; open fibrous soil.

—**Lobbianum.**

TRIM-6. 50¢

Showy orange fls with yellow throat; fine for hanging baskets.

TRIFOLIUM.

(trye-FOH-lee-um)

Clover. Leguminosae. Those listed have ornamental value.

—**alpinum.**

TRIF-4. 25¢

Red fls in loose heads; 4"; HP.

—**repens.**

TRIF-20. 20¢

Shamrock. This and Oxalis acetosella said to be the true Irish Shamrock; HP.

—**atropurpureum.**

TRIF-20P. 25¢

Deep bronze-red foliage with green margins; HP.

TRIGONELLA.

(trye-gon-NELL-uh)

Leguminosae. Plants with trifoliate foliage.

—**coerulea.**

TRIG-3. 30¢

Blue and white fls; 2 ft; HA.

—**foenum graecum.**

TRIG-6. 30¢

Common Fenngreek. Seeds of medicinal value; 2 ft; Y HA. **Oz. 75¢; lb. \$2.00.**

TRILLIUM.

(TRIL-i-um)

It has an epicotyl dormancy both in root and shoot; seed held at 5 degrees C for 3 months and then in GH temperature for 3 months and then at 5 degrees C for 5 months is proper treatment; untreated seed requires 2 winters for green leaves.

For bulbs of the species cernuum, erectum, grandiflorum, luteum, sessile, stylosum, undulatum, see native wild flower plant list in back part of this catalog; they

move best in the fall; can quote in quantity

- erectum.** **TRIL-10.** 50¢
To 1 ft; brown or greenish purple fls,
1 inch long; hardy.
—**grandiflorum.** **TRIL-12.** 40¢
—**u. du. atum.** **TRIL-30.** 40¢
(*T. erythrocarpum*) To 2 ft; fls white
veined purple; HP; (IV).

TRIOSTEUM. (try-OS-tee-um)
Horse Gentian, Feverwort. Caprifoliaceae.
Perennials of rather course habit.

- perfoliatum.** **TRIO-5.** 25¢
Horse-Gentian, Tinker's Weed, Wild Coffee. Ornamental purple fls, $\frac{3}{4}$ " long; followed by orange-yellow fruits; (III); 2-4 ft; HP.

TRIPTERIS. (TRIP-ter-is)
Compositae. S. Af. plants and shrubs,
not hardy in the North; flowers are daisy-like
both ray and disk flowers; plant early in the
spring.

- hyoseroides.** **TRIP-1.** 25¢
Golden yellow fls with black disks; 2 ft;
pretty; HA.

TRISTANIA. (tris-TAY-ni-ah)
Myrtaceae. Shs and trs of Malaya and
Australia. Grown out doors in warm regions;
(IV).

- conferta.** **TRIS-3.** 35¢
Brisbane Box, Queensland Bush Box. Tr
to 150 ft; white fls, $\frac{3}{4}$ " ac; fruits; Australia.

TRITOMIA: see **Kniphofia**. Red-Hot-Poker

TRITONIA. (trye-TOH-nee-uh)
Iridaceae. Cormous plants from S. Af;
hardy in N or they can be handled as for
Gladiolus.

- crocea v uninata.** **TRIT-2M.** 35¢
Bright red or scarlet fls, 2" ac; Calif.
—**Squalida.** **TRIT-12.** 40¢
White or pinkish fls with yellow blotch.
—**Mixed.** **TRIT-X.** 25¢
Culture same as for **Gladiolus**; (IV).

TROCHODENDRON.

Trochodendraceae. Japan and Korean ever-
green trees.

- aralioides.** **TRUC-3.** 50¢
To 60 ft; bright green fls, $\frac{1}{2}$ " ac, in 3
ft. racemes; Papan. **Oz.** \$1.00.

TROLLIUS

Globe Flower. Ranunculaceae. Are nice
spring flowering plants in the border if plant-
ing in a low moist place with some shade; colors
are yellow or orange and in form Buttercup-
like; the seed requires a good cold spell be-
fore they will germinate; C-24. (**TROL-i-us**).

- albiflorus.** **TROL-2.** 35¢
White fls, $1\frac{1}{2}$ " across; 1 ft; pretty; (III);
HP.

- europaeus.** **TROL-8.** 50¢
Globe Flower. Lemon-yellow fls, 2" ac;
2 ft; HP.

- Golden Sun.** **TROL-8G.** 30¢
Orange and yellow shades. $\frac{1}{4}$ Oz. \$1.75.

- Orange Princess.** **TROL-8P.** 25¢
A pretty orange variety; 1 ft; HP. $\frac{1}{2}$ Oz.
90¢.

- Ledebouri.** **TROL-19.** 25¢
Pure orange, flowering about a month
later than *T. europaeus* varieties; 2 ft; a
sunny spot in bog garden; HP. $\frac{1}{2}$ Oz. \$1.90.
en; HP.

- patulus.** **TROL-19P.** 25¢

Soft yellow fls; 2 ft; for the brookside;
HP.

- pumilus.** **TROL-20.** 25¢
Golden King Cup. 5"; fls 1" across;
easy; HP.

- p. mi. us.** **TROL-20.** 40¢
Yellow fls, 1" ac; 1 ft; Himalayas; HP.
—**Trolius Mixed.** **TROL-X.** 25¢

TROPAEOLUM. (trop-PEE-ol-um)
Nasturtium. Tropaeolaceae. Only one gen-
us, the well known Nasturtium, which see.
They are tender to frost; quick growing and
popular.

- peregrinum.** **TROP-7.** 25¢
Canary-Bird-Flower. A nice TA climber
with canary-yellow fls, 1" across; 10 ft.

TSUGA. (TSEU-gah)
Hemlock. Pinaceae. Evergreen trees native
of Asia and N. Amer. They make orna-
mental trees and popular in the young stage.

- canadensis.** **TSUG-1.** 35¢
Oz. 50¢; lb. \$3.00.
—**heterophylla.** **TSUG-8.** 40¢
Western Hemlock. **Oz.** \$1.50; lb. \$4.00.
—**Mertensiana.** **TSUG-10.** 40¢
Mountain Hemlock. (Pettoniang); (II).
Oz. \$4.00
—**Sieboldii.** **TSUG-13.** 40¢
Branchlets glabrous; Japan. **Oz.** 80¢.

TULBERGIA.

Lilaceae. Tropical plants similar to **Agapanthus**. They can be grown outdoors in
the S and a good pot plant in the North.

- violacea.** **TULB-3.** 25¢
From S. Af; 30".
—**South Rhodesian species.** **TULB-5.** 25¢

TULIPA

Tulip. Liliaceae. Growing Tulips from seed
is interesting, especially so with the species
which come true from seed; seed germinates
slowly and their growing is a challenge.

- Batainii.** **TULP-3.** 25¢
Pale yellow; early; 6".
—**biflora.** **TULP-4.** 25¢
RG species; star-like fls, white or yellow;
5 inches.

- turkestanica.** **TULP-4T.** 25¢
Larger leaves; 4-5 flowers to stem.

- Clausiana v. chrysantha.** **TULP-9C.** 25¢
Golden yellow vase-shaped
fls; 6".

- Fosterana.** **TULP-15.** 25¢
Large crimson flowers; robust growth.

- Kaufmanniana.** **TULP-25.** 25¢
Beautiful; Water-lily-like; white, yellow
and pink; 8".

- Galety.** **TULP-25G.** 25¢

- Kolpakowskiana.** **TULP-26.** 25¢

- praestans.** **TULP-41.** 25¢
Light red; Bokhara.

- tarda.** **TULP-52.** 25¢
(*dasytemon*) Small; yellow fls.

- Mixed.** **TULP-X.** 25¢

NOTE: We offer all Tulip species in bulbs
which will be found in the Botanical Bulb
List; either in this Catalog or in a separate
booklet. Ask for it if interested.

TULIP TREE: see **Liriodendron**.

TUNICA. (TOO-nik-uh)

Tunic Flower. Caryophyllaceae. Herbaceous
annuals and perennials similar to the
Dianthus in growth but smaller; for edging
or the rockery.

- saxifraga.** **TUNI-2.** 25¢
Tufted; spreading; pink fls; RG; HP. **Oz.**

—**Velutina.**

Ev. gr, HP; 1 ft; tufted; pink fls in summer; rocks or dry bare, poor soils; on banks or slopes. **Oz. \$1.00.**

TURBINOCARPUS.—**Schmeeduteanus.**

TWEEDIA: see *Oxypetalum*.

ULETEROSIDEROS.—**lomentosa.**

Blood-red fls; tree to 50 ft; N. Z.; (X).

ULEX.

(EU-Jeks)

Furze, Gorse, Whin. Leguminosae. Shs. good for poor sandy soils; do not transplant easily; sow seeds where they are to grow.

—**europaeus.**

Grose, Whin. Sow in late spring; (VIII).

Oz. 60¢; lb. \$4.50.

—**nanus.**

2 ft. **Oz. 50¢.**

TUNI-6. 40¢**TURB-12. 50¢****ULET-12. 35¢****ULEX-1. 30¢****ULEX-3. 35¢****ULMUS**

UL-mus. Elm. Ulmaceae. Popular shade and street trees; most all are hardy in the N; best to plant seed as soon as possible after ripening.

—**americana.**

Water Elm. c. s. **Lb. \$2.00.** Fresh seed about June 1st.

—**glabra.**

(montana) **Oz. 50¢; lb. \$2.00.**

—**parvifolia.**

Chinese Elm Hardy in N; China. **Oz. 90¢.**

—**procera.**

English Elm. (campestris). **Oz. 50¢; lb. \$1.25.**

—**pumila.**

Dwarf Elm. **Oz. 50¢; lb. \$2.00.**

NOTE: Most Elm seeds ripen in May or June and quantity orders should be placed well in advance that the seed may be collected.

UNIOLA.

(eu-NA-oh-lah)

Gramineae. N. Amer. perennial grasses with prominent 2-edged spikelets borne in panicles.

—**latifolia.**

A pretty border plant; 5 ft; HP.

URSINIA.

(ur-SIN-ee-uh)

Compositae. S. Amer. annuals and perennials, the flowers Daisy-like, solitary or loosely clustered; sow seeds early indoors or direct to soil; treat as an annual in the North.

—**anthemoides.**

Jewell-of-the-Veldt. Colors from lemon-yellow to orange, each with a purple zone around the center; RG; cuts; June-Sept; 15" FA. **Oz. \$1.20.**

—**calendulaeflora.**

Shaded orange-yellow; 15".

—**caerulea.**

Yellow or orange.

—**cahillifolia.**

Rich orange fls, 2" ac; rays purple; 2 ft; HA. $\frac{1}{2}$ **Oz. 90¢.**

—**anthera.**

Bright orange with a showy crimson zone. $\frac{1}{2}$ **Oz. 90¢.**

—**Mixed.**

NEW hybrids.

NEW. Varied colors. $\frac{1}{4}$ **Oz. 75¢.**

URTICA.

(ur-TY-kah)

Nettle. Urticaceae. Grown for medicin-

al properties; some for ornament.

—**diocla.**

Stinging Nettle. 4 ft; HP; medicinal.

This is one of the main ingredients of the compost activators.

—**utilis:** see *Boehmeria nivea*.

VACCINIUM.

(vak-SIN-ee-um) Blueberry, Cranberry,

Ericaceae. Hardy shrubs and trees grown

for ornament or for their edible fruits and

all thriving in rather acid soils of a peaty

sandy nature. Sow the seed in the fall or

stratify till spring.

—**angustifolium laevifolium. VACC-1A. 25¢**

(pennsylvanicum) 2 ft; (III).

—**alba. VACC-1LA. 30¢**

A white flowered form.

—**canadense. VACC-5. 30¢**

Deciduous; blue fruits; 1-2 ft; HSH.

—**corymbosum. VACC-7. 25¢**

Seed saved from large fruited varieties.

—**Myrtilus. VACC-18. 30¢**

Wortleberry. d.b. **Oz. 50¢; lb. \$2.50.**

—**Mixed. VACC-X. 25¢**

VALERIANA.

(val-er-ee-AY-nuh)

Valerian. Valerianaceae. Perennials and

shrubs with small white or rose flowers in

cymes or spikes, very easy; nice in border;

they are very fragrant.

—**coccinea. CENS-4. 35¢**

Beautiful fls of a deep dark red; 3 ft;

especially suited for bouquets; sow in the

open ground early in sp or in Sept, carry-

ing plants over winter under glass, bedding

out in spring in a sunny place.

—**officinalis. VAL-12X. 25¢**

Garden Heliotrope. Popular; pink, red,

and white fls; 4 ft; HP.

—**White. VAL-12W. 25¢**

—**Red. VAL-12R. 25¢**

—**Broad Leaf. VAL-12B. 30¢**

A German variety requiring a good rich

and moist soil; good in marshy places.

Oz. \$1.90.

—**Red-Leaf. VAL-12E. 30¢**

Especially good for marshy and partly

shaded places.

—**rubra:** see *Centranthus rubra*.

VALERIANELLA.

(val-lee-ri-ah-NEL-ah)

—**olitioria. VALR-5. 25¢**

VALLOTA.

(val-LOH-tah)

—**speciosa. VALL-1. 25¢**

S. Af. tender bulb; handle like Amaryllis;

good indoor pot plant; GH.

VANHEERDIA.

—**divergens. VANH-3. 50¢**

VELTHEIMIA.

(velth-EYE-mee-uh)

Liliaceae. Bulbous plants from S. Af; they

are Gladiolus-like plants; not hardy and must

be lifted in the fall; good in the South.

—**veitiiifolia. VELT-4. 25¢**

African bulbous plant; fls yellow tinged

red; 1½ ft; TBB.

VENIDIUM.

(ve-NID-i-um)

Compositae. Hardy annuals and perenn-

ials of S. Af; suggest small Sunflowers; nice

in border; also cuts; full sun; well drained

soil.

—**decurvens. VENI-2. 25¢**

Heads of golden yellow fls with dark

centers; 2 ft; HHA.

—**hirsutum. VENI-6. 25¢**

Orange fls; 18"; HHA.

—**Variety. VENI-6V. 25¢**

Cream with black zone; 18"; HHA.

VERATRUM.

(ver-RAY-trum)

Fake Hellebore.. Liliaceae. Perennials with thick roots; easy; border or wild garden.

—**nigrum.** **VERA-S. 40¢**
Blackish purple fls in panicles; lvs 1 ft long, 8" wide; 4 ft; HP.



VENIDIUMS

VERBASCUM. (ver-BASK-um)

Scrophulariaceae. Mostly tall hardy biennials; makes fine specimens in the back of the border.

—**Harkness Hybrids.** **VERS-9H. 30¢**
—**Hinkel.** **VERS-12. 30¢**
Huge sulphur-yellow candles.

—**Lychnitis.** **VERS-19. 30¢**
—**Olympicum.** **VERS-25. 30¢**

Yellow fls; woolly leaves; 6

—**paniculata alba.** **VERS-28. 30¢**

—**phoeniceum hybrids.** **VERS-31. 30¢**

Purple and red fls in raceme; 4 ft; HP

—**simplex.** **VERS-36. 30¢**

(giganteum) Similar to Thapsus and lustratum.

—**soeiosum.** **VERS-39. 40¢**

—**thapsiforme.** **VERS-42. 30¢**

Aaron's Rod. Yellow fls; woolly leaves; 3 ft.

—**Thapsus.** **VERS-45. 35¢**

Common Mullein. Tall weed; one of the

best know herbal cures for deafness of the

middle ear due to catarrh.

—**virgatum.** **VERS-50. 30¢**

Yellow or white fls, 1" ac, short stalked

clusters; 4 ft.

—**Mixed..** **VERS-X. 30¢**

VERBENA

(ver-BEE-nuh) Verbenaceae. Mainly perennials and highly prized for their profuse blooming; in the North they are grown as HA but in the far South as perennials; start indoors for early bloom; space 1 ft. apart; sunny places.

TEUCRIODES: Most of the popular garden varieties belong to this species. There are many new improved form developed in recent years.

—**Crystal.** **VERB-1C. 30¢**

Pure white fls, otherwise same as Sparkle; good mixed together.

—**Spreading Type.** **VERB-1SX. 25¢**

Mammoth fls on spreading type plants.

Mixed colors.

—**Florist Dwarf Compact.** **VERB-1DC. 25¢**

NEW. Extremely uniform plants, dwarf and compact in habit, blooming 2-3 weeks earlier than regular strains. All plants produce blooms with eyes of bright con-

trasting shades, giving a harmonizing color combination of eyed kinds; many colors not found in other strains. It has special value for Florist use and flat growers, as it kill produce flowers in the flat; good also for pots and bedding. **Oz. \$4.00.**

—SPARKLE.

VERB-1S. 25¢

NEW. An entirely new class of Verbena; habit is dwarf and compact and completely eliminates the open or bare spots that develop in the centers of plants of the regular strains. SPARKLE is the sharpest color yet offered in Verbenas—a bright scarlet-red, greatly intensified by a large gleaming white eye. **Oz. \$5.00.**

—SPA KLE, MIXED.

VERB-1SX. 35¢

This is really a hybrid race of the Sparkle type and includes the warm scarlet-red of Sparkle thru rose and pink to the softest tones of salmon, lavender and crystal white as well as mid-blue and purple; a high percentage will be the eyed-type in many bright color combinations; 10" tall. $\frac{1}{4}$ Oz. \$2.75.

—Floradale Beauty.

VERB-1F. 25¢

Pose shades; extra large flowers. $\frac{1}{2}$ Oz. \$1.50.

—Hybrida grandiflora..

VERB-1B. 20¢

New bush type. New brilliant blend of colors; dense flat heads, closely massed across the flat-topped plants; 8-10".

OTHER SPECIES:

—bipinnatifida.

VERB-2. 25¢

Lilac-purple fls in loose clusters; showy; HP.

—bonariensis.

VERB-3. 25¢

Lilac fls in dense spikes; 4 ft; HA.

—canadensis v. compacta.

VERB-5C. 25¢

Large fls; grow as annual; mixed colors.

—haslata.

VERB-10. 25¢

Blue Vervain. Many 6" spikes of small blue fls, late in summer; 5 ft; HP.

—lacinata.

VE B-21. 25¢

Violet fls in short clover-like heads; grow as an annual.

—rigida.

VERB-31. 35¢

(V. venosa) Erect per.; vervain; 1-2 ft; bright reddish fls in dense spikes; excellent bedding plant. $\frac{1}{2}$ Oz. \$1.30.

VERBESINA.

(ver-bes-SYE-nuh)

Compositae. Amer. plants and shrubs with yellow, orange or white flowers; solitary or in panicle heads.

—encelioides.

VEBE-3. 25¢

Golden yellow rays, 2" across; TA:

VERNONIA.

(ver-NOH-nee-uh)

Ironweed. Compositae. Herbaceous perennials in the N and trees and shrubs in the South; flowers are showy and in purple, pink or white heads of disk flowers, in terminal clusters. They bloom late in the summer and autumn; border or wild garden.

—altissima.

VERN-1. 25¢

Purple heads $\frac{1}{2}$ " across; 10 ft; (IV); HP.

—gerberae-foryis.

VERN-5. 30¢

Large purple-blue Cornflowers; S. Rhod.

—glabra.

VERN-6. 25¢

Deep blue; 1-2 ft; good for cutting; So. Rhodesia; TP.

—melleri.

VERN-12. 25¢

Sky-blue fls; large plant; TP; S. Rhod.

- noveboracensis.** **VERN-20.** 40¢
9 ft; deep purple heads, ½" ac; HP.

VERONICA.

(ver-RON-ik-uh) Speedwell. Scrophularaceae. Annuals and perennials popular in the rockery or border; hardy, free flowering and thriving in a sunny or light shady spot; easy.

- Chamaedrys.** **VEA-O-25.** 30¢
Germander Speedwell. Blue fls; 18".
—**filiformis.** **VEA-O-32.** 40¢
Blue fls on thread-like stems; annual or perennial; S. Europe.
—**fruticans.** **VERO-33.** 25¢
Blue fls on short racemes; shrubby; 6"; HP.
—**gentianoides.** **VERO-35.** 35¢
(glabra) Pale blue fls in loose racemes; 1 ft; May-June; attractive ev. gr. mats of lvs; HP.
—**Guthrieana.** **VERO-44.** 30¢
Neat evergreen with blue fls; 9"; HP.
—**holophylla.** **VERO-47.** 30¢
Very pretty HP.
—**incana.** **VERO-40.** 30¢
Blue fls in racemes; 6" long; 2 ft; Russia.
—**latifolia.** **VERO-42.** 35¢
(V. elatior, Teucrium) 2 ft; royal blue fls in panicle racemes. ¼ Oz. \$1.50.
—**maritima.** **VERO-55.** 25¢
(V. longifolia v. excelsa) HP; 2 ft; lilac fls in dense racemes.
—**officinalis.** **VERO-59.** 40¢
Prostrate HP ground cover; pale blue fls.
—**pinnata.** **VE O-60.** 35¢
3 ft; HP; blue fls in many-fl'd racemes; Russia.
—**rupestris rosea.** **VERO-79.** 25¢
Neat pink carpet; 2"; HP.
—**spicata.** Mixed. **VERO-85.** 20¢
Blue, reds, pinks and white; 18"; HP.
—**Blue Shades.** **VE O-85B.** 30¢
Rich blue flowered strain; extra good for cutting. ½ Oz. \$1.00.
—**spuria.** **VE O-72.** 40¢
(paniculata, amethystiana) Blue fls in panicle racemes; 2 ft; HP.
—**Dwarf Varieties.** **VERO-80DX.** 25¢

VERTICORDIA.

Myrtaceae. Australian, heath-like shrubs for warm regions.

A beautiful genus of about 48 species of Australia; all excellent cut-flower; a little hard to grow.

- brownii.** **VERC-4.** 50¢
4-5 ft; Australia.
—**chrysantha.** **VERC-9.** 50¢
3 feet; Australia.
—**grandis.** **VERT-29.** 50¢
3-6 ft s; has largest fls, 1" dia; long bloomer; warm sandy soil; W. A.
—**plumosa.** **VERT-45.** 50¢
—**roei.** **VERT-56.** 50¢
—**etheliana.** **VERT-21.** 50¢
—**densiflora.** **VERT-15.** 50¢
—**muelleriana.** **VERT-36.** 50¢
3 ft; a striking species with showy pink fls; gravelly stony soil best; W. A.
—**monadelphica.** **VERT-32.** 50¢
—**nitens.** **VERT-39.** 50¢
2-4 sh; showy in bloom; dense masses of golden yellow fringed fls; moist sandy heath soil; prune after flowering; W. A.
—**Preissi.** **VERT-47.** 50¢
—**Chrysanthia.** **VERT-9.** 50¢
—**ceata.** **VERT-60.** 50¢
—**spicata.** **VERT-50.** 50¢
Small lvs; dense heads of fringed daisy-like fls; good cut; likes sandy soil; W. Australia.
—**gracilis.** **VERT-27.** 50¢
—**picta.** **VERT-49.** 50¢

VESICARIA.

- gracea.** **VESI-2.** 30¢
Bladder-pod. Yellow fls; inflated pods; (VI); HP.
—**utriculata.** **VESI-6.** 40¢
1½ ft; HP.

VESTIA.

- lycioides.** **VEST-8.** 50¢
Hardy in Calif; a good pot plant for GH.

VIBURNUM

(vy-BURN-um) Snowball. Caprifoliaceae. One of the most popular ornamental shrubs. They also make excellent refuge for birds as well as food during the winter, all kinds of wild-life relish their berries. Seed can be planted in the fall in border lands or edges of woods or stratify them for spring planting; they germinate readily.

- acerifolium.** **VIB-1.** 25¢
Maple-leaf V. White fls in cymes in the spring, followed by purplish black fruits; foliage turns reddish in fall; has epicotyl dormancy in seed; HSH.
—**cassinoides.** **VIB-13.** 30¢
White-rod. White fls in cymes 5" across; June-July; fruits bluish black; (III); 12 ft.
—**dentatum.** **VIB-20.** 25¢
Arrow-wood. White fls on long stemmed cymes; (III); 15 ft.
—**dilatatum.** **VIB-21.** 30¢
White fls; heads 5" across; fruits scarlet; 10 ft; Japan. Oz. 65¢; lb. \$4.00.
—**fragrans.** **VIB-25.** 25¢
White or pink fragrant fls in panicles, 2" long; black fruits; 10 ft.
—**Lantana.** **VIB-36.** 35¢
Wayfaring Tree. Sow seed in fall or early spring. c.s. Oz. 50¢; lb. \$2.80.
—**Leucago.** **VIB-37.** 30¢
Sheep-Berry. Nanny-Berry. Very hardy; (II); 3 ft; cymes 5" ac; May-June.
—**nervosum.** **VIB-43.** 30¢
Himalayan species.
—**odoratissimum.** **VIB-46.** 30¢
White fragrant fls; red fruits turning black; 10 ft; evergreen. Oz. 70¢; lb. \$4.50.
—**opulus.** **VIB-47.** 25¢
Cranberry-bush. c.s. Oz. 75¢; lb. \$4.00.
—**plicatum v. tomentosum.** **VIB-50T.** 25¢
White fls in cymes 4" across; Japan; 10 ft. Oz. 60¢; lb. \$4.00.
—**rhytidophyllum.** **VIB-56.** 25¢
Yellowish white fls; China; 10 ft d.b. Oz.
—**Sargentii.** **VIB-60.** 30¢
Flowers in 4" cymes; scarlet fruits; 12 ft. Oz. 60¢; lb. \$4.50.
—**Stieboldii.** **VIB-65.** 30¢
Creamy white fls in panicles, 4" long; 10 ft; Japan. Oz. 60¢; lb. \$5.00.
—**Tinus.** **VIB-68.** 35¢
Laurestinus. 10 ft; evergreen; pinkish fls in cymes, 3" ac; good for GH. Oz. 50¢; lb. \$3.50.
—**tomentosum.** **VIB-69.** 40¢
White fls in long stalked cymes to 4" ac; frs red, turning black; 10 ft; China. Oz. 70¢; lb. \$4.00.
—**trilobium.** **VIB-70.** 40¢
(americanum, oxycoccus) Cranberry Bush 12 ft; white fls in cymes 4" ac; May-June; hardy shrub.
—**Wrightii.** **VIB-77.** 30¢
White fls in cymes, 4" across; Japan; 10 ft. Oz. 60¢; lb. \$4.50.
—**Mixed.** **VIB-X.** 25¢

VICIA.

- (VIS-i-ah) Leguminosae. Tendril climbers; many uses.
—**Cracca v. Gerardii.** **VICI-8G.** 30¢
Cow Vetch. HP; violet fls; more pubes-

cent. Oz. 75¢.

—hyb. Schmeewehe.
White flowers.

VICI-8S. 30¢

VIDORELLA.

(vid-o-RELL-ah)

Seeds from South Rhodesia.

—residifolia. VIDO-1. 25¢
Small bright yellow globular fl-heads;
(X).**VIGNA.**

(VIG-nah)

Leguminosae. Annuals with Sweet Pea-like
flowers; not extra hardy.—Catjang. VIGN-1. 50¢
(Catjang) Vine-like; (X); grow as an annual. Oz. \$1.00.—serpuipedalia. VIGN-10. 25¢
Asparagus or Yard-long Bean. Pods 2-3
ft long; edible as snap beans; different.**VIMINARIA.**—denudata. VIMI-8. 50¢
Pretty little tree of weeping habit; 10-15
ft; small yellow pea-fls; mulched soil re-
quired; Australia.**VINCA.**

(VIN-kah)

Erect or trailing plants; useful for ground
cover or in vases or hanging baskets; thrives
in moist shady places.—rosea. Mixed Colors VINC-4X. 25¢
Sow seeds early in a warm place; a pop-
ular vine grown in GH for vase and win-
dow-box work.

—Pure White. VINC-4W. 25¢

—Crimson. VINC-4C. 25¢

—White with Pink Eye. VINC-4B. 25¢

—Soft Pink. VINC-4P. 25¢

—Rose. VINC-4A. 25¢

All above: Oz. \$2.00; lb. \$17.50.

—Coquette. VINC-4DC. 35¢

NEW Dwarf growing; 6"; Pinkie.

VIOLA

(vye-OL-uh) Violet. Violaceae. The genus contains many attractive herbaceous perennials and a few annuals. The Violet and Pansy are the two most popular, both thriving in a rich soil and partial shade. During winter they require a mulch of leaves. The germination of Violet seed is different from Pansies; and the most successful results will be had by sowing Viola seed in flats in the fall and leaving them out all winter in the snow, when they germinate the first thing in the spring.

VIOLA CORNUTA: Horned Violets. More or less tufted Violets. They come in many varieties, of which, the best and most popular are listed here. They do best in partial shade, rich moist soil and where it does not dry out during the summer.

—Admiration. VIOL-ID. 25¢

A large dark blue.

—Arkwright Ruby. VIOL-1A. 25¢

Rich crimson with dark eye. ½ Oz. \$3.50

—Bicolor. VIOL-1B. 25¢

Light violet-blue; very pretty.

—Blue Gem. VIOL-1BG. 25¢

Jersey Gem. Compact violet-blue.

—Chancreyland. VIOL-1C. 25¢

Pure apricot; free flowering. ½ Oz. \$2.80.

—Georgia Peach. VIOL-1GP. 35¢

A new huge peach colored bloom; good.

—Jersey Gem. VIOL-1JG. 25¢

—White Gem. VIOL-1W. 25¢

Pure white; extra.

—Ilona. VIOL-1L. 25¢

A fine wine-red.

—King Henry. VIOL-1H. 25¢

Deep violet with a heavenly-blue center, bright eye.

—Lord Nelson. VIOL-1N. 25¢

A large flowered violet-purple.

—Lutea splendens. VIOL-1S. 25¢

Deep golden yellow. ½ Oz. \$2.80.

—papillo. VIOL-1P. 25¢

Light blue with white spots.

—Purple Bedder. VIOL-1PB. 25¢

A new English variety.

—Scotch Strain. VIOL-1SX. 25¢

Neatest and best hybrids, mixed colors.

—Scotish Yellow. VIOL-1SY. 25¢

—Thuringia. VIOL-1T. 25¢

Dark blue with white eye.

—Gem Varieties Mixed. VIOL-1GX. 25¢

A compact growing strain.

—Blend of Above Varieties. VIOL-1X. 25¢

—odorata, The Czar. VIOL-13Z. 25¢

Large fl'd blue. ½ Oz. \$2.00.

—Blue. VIOL-83B. 25¢

Sweet Violet.

—Queen Charlotte. VIOL-83C. 25¢

Large fl'd deep blue..

VIOLA SPECIES: It is probable that we may be short on some of these as the supply of seed is very uncertain and at time of printing the crop is not known.

—adunca. VIOL-2. 35¢

Very hardy woodland Violet; violet; 4".

—aetolica saxatilis. VIOL-3. 35¢

Tiny and dainty; soft yellow fls; 2"; sun.

—arenaria rosea. VIOL-9. 35¢

(rupestris) Pale violet or white; 3"; HP.

—bellidifolia. VIOL-15. 35¢

Dwarf matted; violet or purple fls; 3".

—Douglasii. VIOL-34. 35¢

Orange-yellow, veined purple; gritty soil;

4"; Calif.

—gracilis major. VIOL-49. 35¢

Violet fls; 1 ft; Macedonia.

—Hallii. VIOL-53. 35¢

Upper petals dark violet; lower white; 4".

—nigra, Black Imp. VIOL-79. 35¢

Quaint little Pansies; black velvet, small eye.

—papillonacea. VIOL-90. 35¢

Canadian Violet. Bright blue fls.

—naviflora. VIOL-9. 30¢

—Priceana. VIOL-100. 50¢

Confederate V. Violet-blue; Kv-Ga.

—purpurea. VIOL-102. 35¢

Pink violet; Calif.

—saxatilis. VIOL-110. 50¢

Bright yellow fls; 4"; Me-Ga.

—saxatilis, Dawnside VIOL-114D. 35¢

Johnny-Jump-Ups. This is an exceptional strain and it is very popular; best

grown as an annual.

—sempervirens. VIOL-116. 35¢

(sarmentosa) Yellow fls; decumbent.

—valcutimana. VIOL-143. 50¢

Minute habit with tiny purple and white

Pansies; HP.

—Mixed Species. VIOL-SX. 30¢

VIRGILIA.
Leguminosae. Trees native of S. Af.
grown in the South.

—divaricata. VIRG-8. 50¢

Spring flowering.

—lutea: see Cladrastis.

—oroboides. VIRG-15. 40¢

Marve colored flowers; Kenya.

VISCARIA: see *Lychnis*.**VITEX.**

(VY-teks)

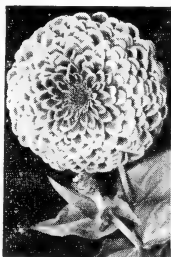
Verbenaceae. Shs and trs; fls blue, red or yellowish, in terminal spikes or panicles.

—Agnus-caste. VITE-1. 30¢

Chaste Tree, Hemp Tree, Monk's Pepper

Tree. Oz. 50¢; lb. \$2.00.

- alba.** **VITE-1A. 30¢**
Oz. 50¢; lb. \$2.40.
- lucens.** **VITE-6. 30¢**
Pretty tree; pink fls followed by red berries; glossy foliage; (X).
- macrophylla.** **VILE-8. 30¢**
A broad leaf form of *Agnus-castus*.
- negundo v. incisa.** **VITE-12C. 30¢**
Lil'-c to lavender fls, 1" long in loose 5" panicles; variety has deeply cut lvs: 15 ft.
- Mixed.** **VITE-X. 25¢**
- VITIS.**
—**Coignetiae.** **VITI-26. 40¢**
Very strong, heavily-foliaged vine.
- VITTADINIA.**
Compositae. Similar to *Erigeron* but native of N. Z., Australia and S. Amer; thick root-stocks; blue or white ray-fls and yellow disks; perennial; (IX).
—**argentea.** **VITT-1. 30¢**
Excellent for edging; free fl'ing; white rays; HA; (triloba).....Oz. \$2.00.
- VIRGINIA STOCKS:** see *Malcomia*.
- WACHENDORFIA.**
Haemodioraceae. Tuberous rooted S. Af. plants related to *Lachnanthes*; fls in panicles.
—**thunbergii.** **WACH-1. 25¢**
Yellow fls; 4 ft; damp places; S. Af.
- WAHLENBERGIA.** (wahl-en-BUR-ji-ah)
Campanulaceae. Annual and perennials similar to *Edrianthus*; culture same as for *Campanulas*; small perennial species nice in the rock garden.
—**albomarginata.** **WAHL-1. 30¢**
Erect blue or white bell-shaped fls; 8"; HP.
—**grandiflora:** see *Platycodon grandiflorum*.
- WALLFLOWER:** see *Cheiranthus cheiri*.
- WASHINGTONIA.** (wah-shing-TOH-in-ah)
Palmaceae. (*Brahea*) Two large fan-palms of Mexico; grown in Calif the Gulf Coast and Florida.
—**filifera.** **WASH-1. 50¢**
Large Palm tree; (IX).
—**robusta.** **WASH-2. 50¢**
The most popular; fast growing; (sonoroe); (VIII); 100 seds \$4.00.
- WATER CRESS:** see *Nasturtium officinalis*.
- WATSONIA.** (waht-SOH-ni-ah)
Iridaceae. Bulbs native of S. Af; culture same as for *Gladiolus* to which they are related; popular for summer flowers.
—**beatrica.** **WAT-3. 25¢**
Rich apricot-red; 3 ft; Af. bulb; (IX).
—**Van Sliavens Strain** **WAT-9V. 25¢**
Evergreen foliage; 5 ft; many colors; (IX)
—**veriana.** **WAT-19. 30¢**
¼ Oz. \$1.50.
- WEIGELA.** (wy-GEE-lah)
—**florida.** **WEIG-9. 30¢**
(rosea) Oz. 90¢; lb. \$12.00.
- WEINMANNIA.**
Cunoniaceae. Trees and shrubs from the S. Hemisphere; ornamental; (V).
—**racemosa.** **WEIN-9. 50¢**
Tree; 80 ft; small pink or white fls in 4" racemes; (X); N. Z.
- WIGANDIA.** (wi-GAN-di-ah)
Tropical shrubby plants with bell-shaped flowers; not hardy in North.
- caracasana.** **WIGA-1. 30¢**
Sub-shrub; 10 ft; pretty; (X). Oz. \$3.00.
- urens.** **WIGA-5. 25¢**
Violet fls; leaves heart-shaped, 1 ft. long.
- macrophylla.** **WIGA-1M. 40¢**
With good culture, leaves are 1½ ft wide and 3 ft. long; tropical effect; blue fls; 13 ft; (IX).
- WISTERIA.** (wis-TEE-ri-ah)
Leguminosae. Twining shrubs; very beautiful vines; moist rich soil best; cut back the growth in mid-summer for flowers next year.
—**floribunda v. macrobotrys.** **WIST-2M. 40¢**
Japanese *Wisteria*. Racemes 3 ft long.
—**alba.** **WIST-2A. 40¢**
—**longissima.** **WIST-2L. 40¢**
Racemes to 4 ft long.
—**frutescens.** **WIST-3. 30¢**
Hardy in N; (IV). Oz. 50¢; lb. \$3.50.
—**sinensis.** **WIST-9. 40¢**
50 seeds to oz. Oz. 75¢; lb. \$4.00.
—**alba.** **WIST-9A. 40¢**
- WOODFORDIA.** (wood-FOR-de-ah)
—**fruticosa.** **WOOF-1. 40¢**
Small red fls; Indian tree of Crape Myrtle Family; (X).
- WOODWARDIA.** (wood-WAHR-di-ah)
—**virginica.** **WOOD-6. 50¢**
Virginia Chain Fern. Strong grower; 2-3 ft; moist shady places.
Plants: 50¢ each; 3, \$1.40. Prepaid.
- WOODRUFF:** see *Asperula odorata*.
- WORMWOOD:** see *Artemisia Absinthium*.
- WRIGHTIA.**
—**fincitoria.** **WRIG-12. 40¢**
Ivory ood. India. Oz. \$1.25.
- WULFENDIA.** (wool-FEE-ni-ah)
Low growing hardy perennials; grown in border; rich moist soil; some shade best.
—**carinthiaca.** **WULF-1. 40¢**
Hardy low perennial; blue tubular fls.
—**alba.** **WULF-1F. 40¢**
- XANTHISMA.** (zan-THIZ-mah)
Compositae. Annuals and perennials, native of Texas; solitary heads of yellow fls for iver of Texas; solitary heads of yellow fls; good in border as well as for cutting.
—**texanum.** **XANS-1. 30¢**
Star of Texas. Heads 2" across; 4 ft; TA.
- XANTHOCERAS.** (zan-THOS-er-as)
They require good soil, a sunny place; its hardy in N; seed should be planted in fall or winter so as to freeze; seeds are large.
—**so-bifolia.** **XANT-1. 40¢**
Ornamental shrub; 15 ft; stratify seed best; (IV). 100 seeds \$2.00.
- XERANTHEMUM.** (zee-RAN-thee-mum)
(zeer-ANTH-em-um) Immortelle. Compositae. Easily grown annual everlasting fls with solitary heads of disk flowers. They are good as cut flowers and very popular for dried flowers; sow seeds early in spring.
—**annuum, Mixed.** **XERN-1DX. 20¢**
Double flowers; 3 ft.
—**Purple.** **XERN-IDP. 20¢**
—**Rose.** **XERN-IDR. 20¢**
—**White.** **XERN-IDW. 20¢**
Any above: Oz. 60¢; lb. \$5.00.
- XEROPHYLLUM.** (zee-rah-FIL-um)
Liliaceae. Turkey-Beard. Nice perennial for the wild garden; fls in dense terminal



ZINNIA FLOWER TYPES

Scabious Flowered

Crown O'Gold

Lilliput

Howard's Giants

racemes.

—**asphodeloides**. **XERO-1.** 35¢
Grass-like foliage; spikes 4 ft, topped by white stars; cuts well; best to sow fresh seed in mid-August, germinates in the following spring.

—**tenax**. **XERO-5.** 35¢
Flowers in 2 ft. racemes; 5 ft; (IX); wild garden.

YUCCA.

(YUK-uh) Adams Needle, Spanish Bayonet, Joshua Tree. Liliaceae. Suitable for bold effect in the border or for specimen plants on the lawn; easily grown from seed.

—**aloifolia**. **YUCC-1.** 25¢
Spanish Bayonet. (VIII). Oz. 60¢.

—**variegata**. **YUCC-IV.** 30¢

—**brevifolia**. **YUCC-6.** 25¢

—**constricta**. **YUCC-7.** 40¢

To 6 ft; Texas; white flowers.

—**elata**. **YUCC-9.** 35¢

(radiosa) To 20 ft; lvs 2½" wide; white margins; white fls; W. Texas. Oz. 85¢.

—**filamentosa**: see **Smalliana**.

—**glauca**. **YUCC-14.** 30¢

Small S. Bayonet. Leaves 3 ft; 6 ft; (IV).

Oz. \$1.00

—**gloriosa**. **YUCC-15.** 25¢

Greenish white to reddish fls; lvs 2½ ft; fls to 8 ft; HHP. **PLANTS:** 75¢ ea; 3-\$1.85.

—**macrocarpa**. **YUCC-19.** 35¢

Grows to 20 ft; in W. Texas; lvs yellowish green with white incise. Oz. \$1.50.

—**mohavensis**. **YUCC-20.** 25¢

Mojave Yucca. Purple-white fls; 10 ft.

—**rupicola**. **YUCC-24.** 35¢

Twisted Leaf Y. Stemless; lvs 18" long;

glaucous, yellow or brown margins; white fls; Txas. Oz. 90¢.

—**Smalliana**. **YUCC-25.** 25¢

Adams Needle. White fls; 12 ft; (IV).

—**Torreyi**. **YUCC-28.** 35¢

—**Mixed**. **YUCC-X.** 20¢

ZANTEDESCHIA.

(zan-te-DES-ki-ah)

—**aethiopica**. **ZAND-2.** 30¢

Common Calla Lily. Oz. \$4.00.

—**Codefreyana**. **ZAND-2G.** 25¢

Smaller and more profused bloomer.

—**Pearl of Stuttgart**. **ZAND-2S.** 50¢

Large flowered type.

—**Rehmannii**. **ZAND-5.** 25¢

Red Calla. Dwarf. Oz. 50¢.

Please do not order by the common name!

ZANTHOXYLUM.

(zan-THOK-si-lum)

—**americanum**. **ZANH-1.** 35¢

c.s. Oz. 75¢; lb. \$4.00.

—**schinifolium**. **ZANH-10.** 35¢

(Fafara s.) Sh or small tr; greenish fls in cymes, 4" ac; China. Oz. 75¢.

ZEA: see under **Corn**.

ZELKOVA.

(zel-KOH-vah)

Ulmaceae. Deciduous Elm-like trees and shrubs; hardy in the North.

—**carpinifolia**. **ZELK-3.** 35¢

(Z. crenata, Planera crenata) Caucasus;

80 ft.

—**serrata**. **ZELK-6.** 50¢

(Keakii) Oz. 90¢.

ZEPHYRANTHES. (zef-i-RAN-theez)

—**Andersonii**: see **Habranthus**.

—**candida**. **ZEPH-8.** 50¢

500 seeds \$4.00.

—**citrina**. **ZEPH-10.** 40¢

Bright yellow fls, 2" long; 1 ft; S. Amer.

—**grandiflora**. **ZEPH-11.** 50¢

(rosea)

—**sulphurea**. **ZEPH-20.** 50¢

ZIGADEMUS.

—**gramineus**. **ZIG-1.** 25¢

Nice for the wild garden; 1 ft; fls in racemes; (I); HP.

—**candida**.

—**citrina**.

—**grandiflora**.

—**sulphurea**.

—**variegata**.

—**viridiflora**.

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ZINNIA

(ZINN-ee-uh) (Crasima) Compositae. A genus of some 10 species of which *Z. elegans* is our popular garden Zinnia; they are TA and may be started indoors for early flowering; a little pinching back will form better shaped plants; striking effect in the border or they can be used for cut flowers. when it will be best to grow them in the vegetable garden.

DAHLIA FLOWERED: The plants in this

type are 2½-3 ft with large Dahlia-like blooms; they are especially good for beds.

—**Canary Bird**. **ZIN-1C.** 20¢

Rich canary yellow color.

—**Crimson Monarch**. **ZIN-1S.** 20¢

- Large showy deep crimson. **ZIN-1D. 20¢**
- Dream.**
- Most unusual rosy lavender. **ZIN-1E. 20¢**
- Exquisite.**
- Light rose with a deep rose center. **ZIN-1N. 20¢**
- Illumination.**
- Deep rose self; extra good. **ZIN-1G. 20¢**
- Golden Dawn.**
- Rich golden yellow. **ZIN-1T. 20¢**
- Golden States.**
- A beautiful golden yellow. **ZIN-1L. 20¢**
- Luminosa.**
- A large luminous bright pink. **ZIN-1M. 20¢**
- Meteor.**
- A rich red, the darkest of the reds. **ZIN-1K. 20¢**
- Oriole.**
- A very popular orange. **ZIN-1W. 20¢**
- Polar Bear.**
- Large creamy white. **ZIN-1R. 20¢**
- Royal Purple.**
- Best of the rich purples. **ZIN-1WR. 20¢**
- Will Rogers.**
- Lovely brilliant scarlet-red. **ZIN-1X. 20¢**
- Mixed Dahlia-flowered.**
- Any above: Oz. 90¢; lb. \$7.00.

GIANTS OF CALIFORNIA: Plants are 3-4 high and the flowers are large flat heads on long stems; they are excellent for cut flowers as well as for bedding.

- Brightness.** **ZIN-2B. 20¢**
- A nice bright pink. **ZIN-2R. 20¢**
- Cherry Queen.**
- Brilliant cherr-red; showy. **ZIN-2E. 20¢**
- Crimson Queen.**
- Deep crimson. **ZIN-2P. 20¢**
- Golden Queen.**
- A real rich golden yellow. **ZIN-2G. 20¢**
- Grenadier.**
- A rich dark red. **ZIN-2L. 20¢**
- Lavender Queen.**
- Deep rosy lavender. **ZIN-2M. 20¢**
- Miss Willmott.**
- Large soft rich pink. **ZIN-2K. 20¢**
- Orange King.**
- ZIN-2R. 20¢**
- Orange Queen.**
- Deep golden orange. **ZIN-2W. 20¢**
- Purity.**
- Best white. **ZIN-2Z. 20¢**
- Rose Queen.**
- Striking deep rose. **ZIN-2S. 20¢**
- Scarlet Queen.**
- Glowing deep scarlet. **ZIN-2X. 20¢**
- Mixed Giants of California**
- Any above: Oz. 90¢; lb. \$7.00.

FANTASY TYPE: Petals are long, curved and pointed, resembling those of the night flowering Cactus; 4" across and 2" deep. plants 2½-3 ft.

- Gold Dust.** **ZIN-3G. 20¢**
- Pretty golden orange.. **ZIN-3M. 20¢**
- Melody.**
- Orchid-lavender. **ZIN-3L. 20¢**
- Orange Lady.**
- Bright deep orange. **ZIN-3SD. 20¢**
- Star Dust.**
- Beautiful canary yellow. **ZIN-3WL. 20¢**
- White Light.**
- Best pure white. **ZIN-3X. 20¢**
- Fantasy Mixed.**
- Very attractive and graceful; medium sized fls with shaggy ray-like petals. Oz. 90¢; lb. \$8.00.

HARMONY or SCABIOUS TYPE: Plants 2½-3 ft, bearing numerous medium sized flowers resembling annual Scabiosa or Harmony Marigold. They have long stems and make excellent cut flowers.

- Finest Mixed.** **ZIN-4X. 20¢**
- Oz. 90¢.

PUMILA TYPE: Dwarf double or Cut-and-Come-Again. Comes in the best pastel shades; 2-3 inches across, round in shape and on good length stems for cutting, blooming in 50 days.

- Sunshine Tints.** **ZIN-6T. 20¢**
- A rich blend in pastel colors.



FANTASY ZINNIAS

PEPPERMINT STICK: A new medium sized Pumila-type flowered Zinnia with the petals striped in various color combinations such as red and white; red and yellow; purple and white; carmine and white; and orange and yellow; about 70% striped flowers.

- Best Mixed** **ZIN-7X. 20¢**
- Oz. \$1.30.

SUPER GIANT HYBRIDS: Extremely large flowered type.

- Floradale Scarlet.** **ZIN-8F. 25¢**
- A uniform scarlet, Cactus type flowers; slightly smaller than Dahlia-flowered; 2-2½ ft; blooms 5-6 inches across. Oz. \$1.30.

- BLAZE.** **ZIN-8Z. 25¢**

A new color in the Cactus flowered type; bursts into bloom with a profusion of brilliant mandarin-red flowers and, as the flowers attain size, change to an exciting fiery orange-scarlet.. Oz. \$1.70.

- Burpee Giant Hybrids.** **ZIN-8B. 25¢**
- This is a comparatively new class of Zinnias. The blooms immense and Cactus-type. Sturdy; blooms 65-inches across and in a full color range without a harsh color. Oz. \$1.75.

- Riverside Beauty.** **ZIN-8R. 25¢**
- A new Cactus-type Zinnia with flowers 5-6 inches across; a warm luminous azalea-pink. Oz. \$1.75.

- Burpee Super Giants Mixed.** **ZIN-8S. 25¢**
- An improved type; extra large blooms, 5-6 inches across of the California Giant type; colors tend toward pastel shades. Oz. \$1.75.

- Sunny Boy.** **ZIN-8M. 25¢**
- Rich buttercup-yellow. ½ Oz. 80¢.
- Eskimo.** **ZIN-8E. 25¢**
- Beautiful creamy white. ½ Oz. 80¢.

EARLY WONDER TYPE: Earliest of all Zinnias and especially good for short season sections. Plants 18-24", basal branching with many 3-4 inch flowers on long wiry stems having no laterals and almost no leaves.

- Fandango.** **ZIN-9F. 20¢**

- Salmon-cerice-pink.
Fiesia. ZIN-9E. 25¢
 The darkest red.
Gypsy. ZIN-9G. 25¢
 Shades of deep orange.
Padre. ZIN-9P. 25¢
 Bright scarlet.
Rose-pink. ZIN-9RP. 25¢
Mixed. ZIN-9X. 20¢
 Above: Oz. \$1.30; lb. \$9.00.

LILLIPUT or POM POM TYPE: The Lilliputs are among the most popular Zinnias for cut flowers; the blooms are small, compact, symmetrical and on strong plants, 20" high.

- Black Ruby.** ZIN-10B. 20¢
 Blackish red flowers.
Canary Gem. ZIN-10C. 20¢
 Clear canary yellow.
Crimson Gem. ZIN-10R. 20¢
Dainty Gem. ZIN-10D. 20¢
 A dainty bicolor rose.
Golden Gem. ZIN-10GG. 20¢
 Golden orange.
Lilac Gem. ZIN-10L. 25¢
Purple Gem. ZIN-10PG. 20¢
Rosebud. ZIN-10R. 25¢
 Lovely soft rose.
Salmon Gem. ZIN-10SM. 20¢
Scarlet Gem. ZIN-10. 20¢
Scarlet Gem. ZIN-10SG. 20¢
Valencia. ZIN-10V. 20¢
Mixed. ZIN-10X. 20¢
 Any above: Oz. 90¢; lb. \$7.50.

CUPID ZINNIAS: Dwarf compact little plants bearing quantities of button-like flowers smaller than the Lilliput type; for edging or pots.

- Goblin.** ZIN-11G. 20¢
 Burnt orange; an unusual color.

ZINNIA SPECIES:

- gracillima.** ZIN-13G. 20¢
 Miniature deep scarlet flowers; 18-24".
Red Riding Hood. ZIN-13R. 20¢
 Brilliant red fls; very showy. Oz. 80¢.
linearis. ZIN-14. 20¢
 Single, orange striped petals; lasts well when cut; 10 inches high.
Haageana. ZIN-15. 20¢
 Zinniettes. Small double fls varied and variegated; wide color combinations; nice in an old-fashioned garden and miniature bouquets. Oz. \$1.60.



ZINNIA — LINEARIS

- signata, LULA.** ZIN-16L. 35¢

The first lemon-yellow in this species; extra good plant for bedding or edging; compact domed-shaped plants, covered all summer with flowers and way into the autumn; 1 ft; HHA.

- Persian Carpet.** ZIN-15P. 30¢

A brilliant mixture of 1¼" fully double Haageana type flowers on 12" compact plants; the flowers are variegated and usually bicolor combinations, ranging from yellow to deep orange. This miniature Zinnia is ideal for border or bedding, producing a multitude of flowers suitable for small table bouquets. Oz. \$2.00.

ZIZIPHUS.

- Jujuba.** ZIZI-1. 30¢
 Varieties mixed; (vulgaris). c.s. Oz. 75¢; lb. \$3.50.

ZOYSIA.

(SOH-i-si-ah)

Gramineae. Perennial creeping grasses with fine foliage; planted for lawns and golf-courses in the South.

- japonica.** ZOYS-2. 50¢
 Korean Lawn Grass. Lb. \$2.00. If wanted in quantity please write for latest prices.

FLOWER SEED MIXTURES

Mixtures of any seed is prohibited entry from one country to another, as a rule.

This does not apply to mixtures of one genus unless the genus, itself is prohibited.

GENERAL FLOWER MIXTURE.

MIX-8. Pkt. 20¢; Oz. 40¢; lb. \$2.50.

This contains over 1,000 different varieties and species of seed. The bulk of which are hardy in the corn belt; the mixture can be used for general planting most any where in the U.S. Suggest broadcasting in March or April and later start the seed more carefully.

CUT FLOWER BLEND.

MIX-1. Pkt. 20¢; Oz. 60¢.

This contains many different kinds of

seeds suitable for cut flowers. They are hardy annuals as a rule and it would be best to plant them in rows, some in April and then another planting in May.

EVERGREEN TREE MIXTURE.

MIX-5C. 30¢; Oz. 50¢. This a mixture of evergreens for the northern part of the country; plant in shaded beds to remain 2 years.

CUT-FLOWER MIXTURE.

MIX-7. 25¢

This is a special mixture of both hardy and half hardy annuals which if planted in rows in the garden will produce excellent flowers for cutting; make plantings every week during April and May for continuous bloom. Oz. 50¢; lb. \$3.00.

FLOWER SEED MIXTURES

ANNUAL CLIMBING VINES.

MIX-2. Pkt. 20¢; ½ Oz. 40¢.

This collection is of interest to children as the seeds are mainly large and the vines very noticeable when growing. It would be best to plant them where they are to grow and here in Michigan when frosts may occur late in May, the seed would be best planted the first of May and towards the end of the month more seed can be planted between the others in case of frost damage.

ROCK GARDEN PERENNIAL BLEND.

MIX-3. Pkt. 25¢; ¼ Oz. 80¢.

This is a real collection for the Rock Gardener; contains a great many species all suitable for the Rock Garden. They can be sown any time between January and August just so they get a start by freezing weather. The early planting, of course, should be made indoors.

AUSTRALIAN—NEW ZEALAND SEEDS.

MIX-4. Pkt. 20¢; Oz. 80¢.

We list a great many seeds from both Australia and New Zealand and this blend contains seeds of all of them. Keep in mind that most of these will not stand a great deal of frost and thus would be es-germinating them the 'casserole method'.

CALIFORNIA NATIVE FLOWERS.

MIX-13. 25¢; Oz. 50¢.

An exceptional mixture of true California native flowers. Carefully selected to make the most colorful as well as most interesting display. Oz. \$1.20; ¼ lb. \$2.25. pecially useful in the South.

HARDY BORDER BLEND.

MIX-5. Pkt. 25¢; ½ Oz. 90¢.

This is made up of hardy perennials growing from 1 to 6 feet in height. All will make nice specimen plants for the hardy border. Sow the seed any time between January and August, starting the early sowing indoors.

HOUSE PLANS BLEND.

MIX-6. Pkt. 40¢.

The seeds in this mixture are all tender subjects and grown indoors. The seeds of this blend are all costly items and care should be used in planting them. This is an ideal collection for the shut-in. Try

GREENHOUSE BLEND.

MIX-12. 75¢

A blend of many kinds of choice flowers suitable for greenhouse growing; sow thinly in a sandy soil and cover container; water from below.

TROPICAL SEED BLEND.

MIX-9. Pkt. 20¢; Oz. 90¢.

These seeds are all of tropical origin and suitable for the far South for outdoor growing or in the North for indoor plants. They, as a rule, require a warm damp place to germinate and usually bottom heat is very important.

HARDY TREE MIXTURE.

MIX-5. 30¢

A general mixture of the trees listed and hardy in zone IV and V. Plant so as to have at least one winter to germinate.

ROCK GARDEN ANNUALS.

MIX-2A. 25¢

A carefully proportioned blend of many different flowers of low growing sorts best adapted for the rock garden; sow early and for mass effect. Oz. \$2.00.

NATIVE WILD FLOWER PLANTS

The following hardy herbaceous perennial plants can be supplied in the spring or fall. The prices quoted are postpaid and no orders for less than \$3.00 can be handled at the prices quoted. Write for prices where more than one of a kind is wanted.

Spring delivery usually from March -st. to May 15th. Fall delivery starts in August and into December. Winter delivery can be made in most cases, if desired.

ADD 35¢ TO EACH ORDER—POSTAGE

HARDY HERBACEOUS PERENNIALS

POSTPAID.

PRICE EACH.

(For descriptions see regular catalog.)

ADD 35¢ TO EACH ORDER—POSTAGE

ACONITUM reclinatum .....	.40
—uncinatum .....	.50
ACTAEA alba .....	.50
—rubra .....	.45
ALLIUM tricocum. Wood Leek.....	.35
ARALIA racemosa. ....	.50
ARUNCUS sylvester. Goat's Beard .....	.50
ASARUM canadensis. ....	.45
—shuttleworthi. ....	.50
ASTILBE biternata. ....	.50
BAPTISIA australis. ....	.60

—tinctoria. Yellow Wild Indigo .....	.45
CAREX fraseri. ....	.50
CAULOPHYLLUM thalictroides .....	.45
CIMICIFUGA americana .....	.45
—racemosa. Cohosh Bugbane .....	.45
COLLINSONIA canadensis .....	.45
FRAGARIA virginiana .....	.40
DISPORUM lanuginosum. Fairybells ....	.45
EPILOBIUM angustifolium .....	.45
EUPATORIUM urticaefolium .....	.50
GERANIUM maculatum .....	.45
GILLENIA trilobata. Bowmansroot.....	.40
HOUSTONIA purpurea .....	.45
HYDRASTIS canadensis. Goldenseal ....	.50
—Large sized roots.....	.50
—Large sized roots 10-\$2.75.....	.50
LIATRIS pycnostachya. Cattail Gay F. ....	.40
—scariosa. Lge. Button Snakeroot.....	.45
—spicata. Spike Gayfeather .....	.45
MELANTHIUM virginicum .....	.45
MITELLA diphylla. Bishop'S Cap.....	.45
PANAX quinquefolium. Am. Ginseng.....	.50
—2nd sized roots. ....	.30
—Largest roots .....	.85
PEDICULARIS canadensis. ....	.40
PODOPHYLLUM peltatum.....	.35
POLYGONATUM biflorum.....	.35

SAPONARIA officinalis. B. Bet.....	35
SMILACINA racemosa.....	35
SOLIDAGO canadensis.....	40
—odora.....	45
STENANTHIUM robustum.....	50
STREPTOPUS roseus.....	40
TRADESCANTIA virginiana.....	40
THERMOPSIS caroliniana.....	50
TIARELLA cordifolia. Foamflower.....	40
TRADESCANTIA virginiana.....	50
VERONICA virginica.....	40
VIOLA blanda. Sweet White Violet.....	35
—cucullata. Blue Marsh Violet.....	35
—hastata. Halberd-leaved.....	35
—rotundifolia. Yellow Roundleaf V.....	35
—sagittata. Arrowleaf Violet.....	35
YUCCA gloriosa. (patens).....	60

ROCK GARDEN

ADD 35¢ TO EACH ORDER — POSTAGE

AQUILEGIA canadensis.....	45
ARISAEMA triphyllum. J-in-Pulpit.....	40
ASCLEPIAS tuberosa.....	50
CAMPANULA divaricata.....	40
CHAMAELIRIUM luteum.....	40
CLINTONIA borealis. Bluehead.....	50
—umbellulata.....	35
CONVALLARIA majalis. L-of-Valley....	40
COREOPSIS lanceolata.....	40
DICENTRA canadensis.....	35
—cucullaria. Dutchman's Breeches.....	35
—eximia. Bleeding Heart.....	70
DODECATHEON meadia.....	45
ERYTHRONIUM americanum.....	40
EUPHORBIA corollata.....	35
GENTIANA andrewsii.....	40
HEPATICA acutiloba.....	45
—triloba.....	45
HEUCHERA villosa. H. Alumroot.....	40
—americana.....	40
PHLOX divaricata. Blue P.....	40
POLYGALA senega. S. Snakeroot.....	35
POLYGONATUM commutatum.....	45
SANGUINARIA canadensis. Bloodroot..	40
SAXIFRAGA michauxii.....	45
SILENE virginica. Firepink.....	40
SISYRINCHIUM angustifolium.....	40
STOKESIA laevis.....	45
THALICTRUM dioicum.....	50
TRILLIUM cernuum.....	35
—erectum. Purple Trillium.....	45
—album. Wax Trillium.....	30
—grandiflorum. Snow Trillium.....	45
—luteum. Yellow Trillium.....	40
—sessile. Toad Trillium.....	30
—stylosum. Rose Trillium.....	45
—undulatum. Painted Trillium.....	45

TRILLIUM SPECIAL

FIVE each above 8 species, 40 roots for only \$10.00, postpaid.

UVULARIA grandiflora. Merrybells.....	40
—perfolata.....	35
—sessilifolia.....	35
—canadensis.....	40
—pedata. Bird'sfoot Violet.....	35

—bicolor.....	40
YUCCA filamentosa.....	75
—gloriosa. Moundlily Yucca.....	80
ZYGADENUS muscaetoxicum.....	35
XEROPHYLLUM asphodeloides.....	50

HARDY ORCHIDS

ADD 35¢ TO EACH ORDER — POSTAGE POSTPAID. PRICE EACH.

ALETRIS farinosa.....	55¢
APLECTRUM hyemale. Puttyroot.....	50
Puttyroot. Greenish brown fls; 1 ft; rich loam; partial shade; evergreen.	
CALOPOGON pulcaellus. Grass-pink O.....	50
Grass-Pink Orchid. Grass-like foliage and showy pink fls in early summer; bog or water garden; sun or semi shade; 12"-18".	
CYPRIPEDIUM acaule. Pink Lady S.....	50
Pink Ladyslipper. Large bright purple pink fls in early spring; 6-15 inches; our most beautiful hardy Orchid; (II).	
—parviflorum. Yellow Lady S.....	1.00
—pubescens.....	1.00
Yellow Ladyslipper. Large bright yellow fls in May and June; 1-2 ft; rich soil.	
—spectabile. Showy Lady S.....	1.50
Showy Ladyslipper. White to rose colored fls in June and July; 1-2 ft; shade; rich peaty soil; very pretty; (II).	
HABENARIA psycodes. Sm. Purple O.....	85
—ciliaris.....	1.50
Yellow Fringed Orchid. Orange or yellow fls with fringed petals; July-August; sandy soil; part shade.	
—psycodes. Purple Orchid.....	1.00
Small Purple Orchid. Purple fragrant fls; shade; 1-2 ft.	
ORCHIS spectabilis. Showy Orchid.....	55
Showy Orchid. Violet-purple fls mixed with a lighter purple and white; May-June; shade; 6-12 inches.	

100 NATIVE ORCHIDS: Assorted (our selection) all flowering sized plants for part shade or shade for \$25.00, postpaid.

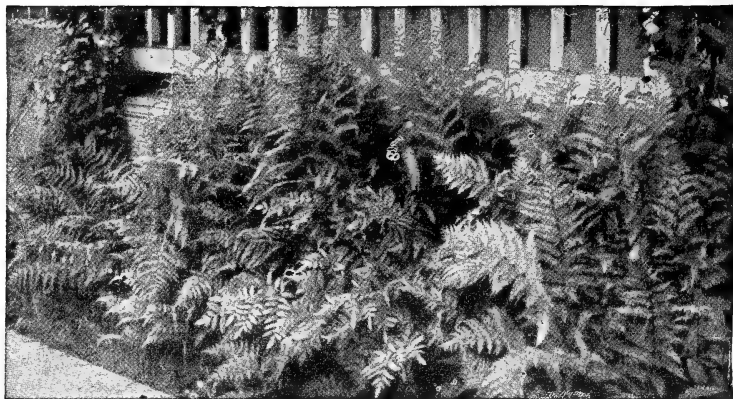
ADD 25¢ TO EACH ORDER — POSTAGE

BOG PLANTS

ADD 25¢ TO EACH ORDER — POSTAGE

DELIVERY: Only during Spring and Fall months. Prices quoted are postpaid BUT be sure to add 25¢ to each order in addition to the price quoted below.

ACORUS calamus.....	60
ASTER puniceus. Swamp Aster.....	35
—novae-angliae.....	45
ARUNDINARIA tecta.....	75
CALTHA palustris. Marsh Marigold.....	40
CHELONE glabra. White Turtlehead.....	45
—lyonii. Pink Turtlehead.....	45
CICUTA maculata. Water Hemlock.....	40
CORNUS canadensis. Bunchberry.....	75
DIPHYLLEIA cymosa. Umbrella-leaf....	40



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Trumpet Creeper. 10-30 ft; fls trumpet-shaped, bright orange to vivid scarlet.

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American Bittersweet. 10-25 ft; woody twiner; attractive orange-colored berries.

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Curly Clematis. 3-6 ft; purple nodding fls; sun or shade.

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—**virginiana.**50
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Evergreen ground cover; 4-12 inches; sun or part shade; lvs bronze bronze.

GAULHERIA procumbens.40
Wintergreen. Ground cover; 3-6 inches; lvs shining; bright red edible berry; shade or part shade.

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Creeping Bluet. 4-6 inches; deciduous; border or RG; sun or part shade.

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Crested Iris. Makes good ground cover; fls blue with orange; pretty; best moved in May.

IRIS verna.45
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Partridge Berry. Ground cover; 3-6 in; bright red berries; shade or part.

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Ground Ivy. Small, low thick growing plants with light blue fls in spring; good RG cover in moist shady places. 10 plants \$3.00.

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PHLOX subulata. 3 for \$1.2540
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SEDUM telephoides.45
Wild Live-forever. 6-12 in; flesh colored fls; Aug; dry sunny place.

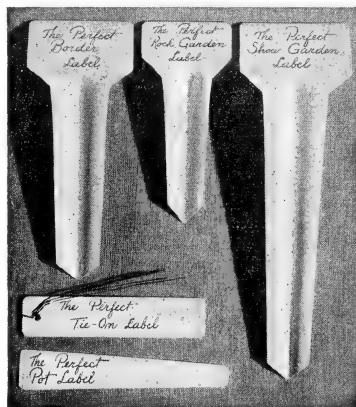
SEDUM ternatum.50
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SHORTIA galacifolia.70
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PROPAGATION of HARDY TREES and SHRUBS. \$1.75

G. M. Taylor. 107 pp. 8 pp plates, Oxford, 1947.

A book designed to meet the needs of the amateur. Tells how to make cuttings, layers, grafting, etc. What shrubs and trees can be propagated from seed and how best to treat the seed in order to obtain the best results

SECRETS OF SUCCESSFUL

PROPAGATION.

\$2.00

By A. A. Longmire. Contains many line drawings by the author with detailed descriptions of his methods of propagating. The list of subjects range from hardy trees to tropical plants; every propagator should have this book.

SEED AND POTTING COMPOSTS. \$1.75

By Lawrence and Newell. Rev. 4th edition, 160 pp., 30 figs., 122mo., cloth. London, 1950. New in dust wrappers.

The authors are the developers of the standardized John Innes composts. Their book shows how those remarkable composts save time, reduce the hazards of raising difficult plants from seed and simplify proper potting on the seedlings or cuttings to maturity. Complete formulas and methods of preparation are given.

SIMPLE PROPAGATION.

\$1.10

By Noel Prockter. 140 pgs; very many ills. There is a vast amount of practical information in this book on propagation, from seeds to budding and grafting, with a list of trees, shrubs and other plants with methods of propagation. Worth many times the price to any grower.

PLANT PROPAGATION.

\$3.50

By E. J. King. 8vo., illus. How to propagate every familiar garden plant and also many that are rare and unusual. The directions given should enable the amateur to be successful even with species supposed to be difficult. Professional propagators and nurserymen will also find the working direction they require. Paragraphs in the text are numbered to make cross references easy and there is also a full index. 3rd. edition.

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Edited by A. G. L. Hellyer. 60 pgs; 140 photos and drawings. A good amateur book; will make a nice present for the beginner in gardening.

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COMMON SENSE COMPOST MAKING.

\$1.00. By M. E. Bruce. 1943. Here is really a valuable little book on a quick method

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GARDENING WITH COMPOSTS. \$1.00

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F. H. Billington. 102 pgs; 4th edition. A general discussion of composting; very good.

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Shewell-Cooper. 204 pp. illus. London 1949. Quite comprehensive for its size, this book lists many plants usable for rock gardens and for pools. Gives cultural hints and tells you how to construct rock gardens and pools.

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By Helen Noyes Webster. Revised and enlarged edition; 1947; 198 pgs. Covers in a general way the subject of herbs from descriptions of old gardens to the care and growing of modern herb gardens; considerable cultural information is given.

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Tisanes, syrups, confections, robs, vinegars and conserves. Mrs. C. F. Leyel; London; 1953. Demy 8vo. With 50 line drawings by Marion Rivers-Moore.

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By Ambrose Heath. 159 pgs. 1953. There are many tasty recipes for the serving and uses of Herbs, including many unusual kinds not ordinarily found in other Herb books; also some 30 pgs. on culture, but the real valuable part is the recipes; the author has written many books on cooking and this book will be found to be different.

FLOWERING & ORNAMENTAL SHRUBS

Their cultivation and propagation. Advice on what to grow under different conditions and instructions on preparation of the soil, pruning, propagation, pests and diseases. Demy 8vo. With 5 illustrations from photographs, one of them in color; D. Macer Wright; London; 1953. \$2.50

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By Juliette de Bairacla Levy. 273 pgs. 1952. This a good practical book on medicinal herbs and their use on farm animals and poultry; it discusses the gathering and preparation; describes medicinal herbs,

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PRACTICAL HERB GROWING.

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HERBS.

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Helen Webster. 198 pgs; new and revised, 5th ed; 1947; 44 ills. A very extended and good discussion on herbs as grown in the U. S. A.

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Listed as America's leading reference on Herbs and their many uses. In "100 Best Garden Books." 5th revised edition; by Helen Noyes Webster.

THE HERB GARDEN.

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Mary T. Quelch. 232 pgs; 8 ills; treats the subject of Herbs mainly as to their use in various illnesses, viz., colds, asthma, constipation, indigestion; rheumatism, etc; gives methods in making teas, tonics, etc.

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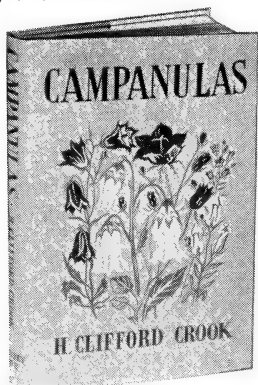
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THE PRUNING MANUAL. \$5.00

E. P. Christopher. 320 pgs; covers the subject of Pruning very completely; trees, fruits, shrubs ;methods; pruning tools; 12 ill. Every gardener should have a copy.

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Our supply is on its way (Dec) and we expect them shortly.

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By G. Gilbert Green. 1953. 237 pgs. 17 fine colored pictures, 166 monochromes of species; 20 ills showing plant structures. The author is a practical grower and the book is of value to both beginners and advanced collectors; covers all type of growing from the window-box to the heated greenhouse; species are classified and identification made simple. A good book on the subject.

THE STUDY OF CACTI.

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By Vera Higgins. 144 pgs; 1950. A general discussion from historical records, classification; distribution; uses; culture and descriptions.

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G C. Nel. 113 pgs; 1953; a comprehensive guide to the general and indoor cultivation of this genus; 50 excellent half tones; many pen drawings of the flowers; some pictures in color; excellent.

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J. Borg. 487 pgs; 1951; over 135 half page half-tones; this is a complete account and discusses 1500 species. To the Cacti growers who take a scientific interest in their plants, this book is a must.

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Gilbert Green. 237 pgs; 17 colored ills; 166 monochrome plates; 20 ills in text showing plants structures. Fascination of Cacti; starting a collection; general cultivation; dictionary of Cacti; diseases (53 pgs); succulents (64 pgs) generic names; names; this is a real book.

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Practical instructions for planting familiar indoor plants, including African Violets. Many ills. By Allen H. Wood.

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Shewell-Cooper, 320 pp., 4 col. plates; 9 gravure plates; 27 line illus; 12 mo; cloth London, 1949.

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Board covers, 8½ x 12; 98 pgs. Many ills. and drawings. If you have fences or gates to build, here is the book on the subject; dandy ideas.

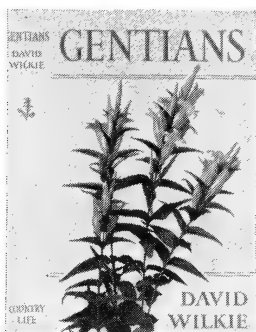
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By G. S. Thomas. The first book on old "period" roses to appear in 20 years. A delightful and practical book on the old roses. Written for the purpose of showing how a great group of neglected roses can add to the list of shrubs available for the general garden.

GROW THEM INDOORS.

\$2.75.

By Allen H. Wood. 186 pgs. Well illust. in half-tones; if you are an indoor gardener, this book will give you ideas and information that will last for years; covers a wide range of house plants including Cacti.

(Books Continued)

BETTER PRUNING OF FRUIT.

90¢

By Norman Stewart. 64 pgs; ring bound. A really good book for any small grower of fruits; 6 chapters; this would make a nice gift for a small fruit grower.

CHRISTMAS GIFTS

Books makes ideal gifts, especially books on facts of which the receiver is interested in. To avoid being disappointed from being sold out, order early and last minute orders should list substitutes; enclose your card and state when to mail, especially on such dates as birthdays.

All prices are postpaid. We intend of-fering only the best books on a subject.

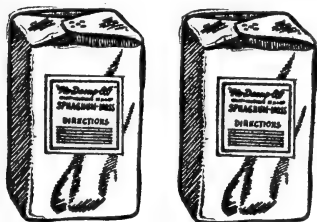
VEGETABLE SEED LIST

I stock a complete list of Vegetable Seeds but in the past due to the 8 ounce postal limit on Catalogs, these have never been included with the flower seeds, but in the issue which is printed in December, the complete



list will be in the one catalog.... It will list many rare vegetables, some from Australia, New Zealand, South Africa. The Catalog cannot be sent out free any more, costs are too high, please sent 25¢ in stamps or coin.

GARDEN SUPPLIES

MILLED SPHAGNUM MOSS

It is simply impossible to germinate many seeds without the use of milled sphagnum moss. If you were over your seed pans all day long as the professional grower is you may find you could get along without it, but no professional grower would fail to have the fine moss on hand. It will save many a packet of valuable seed from loss due to an hours neglect, that cannot be avoided by one having other duties. PRICE: 1/2 Bushel Carton \$1.50, Prepaid.

FERTILIZERS**ROSE PLANT FOOD**

100% plant food, organic formula of dried blood, fish scraps, bone meal, guano, potash, cotton seed meal, nitrate of soda, sulphate of ammonia, poultry manure powder and superphosphate, a 7-8-5 formula.

ONE LB. PKGS. 75¢

HY-GRO PLANT FOOD**A SOLUBLE PLANT FOOD**

A soluble plant food that can be used while you water your plants. It is immed-

ately available as the solution penetrates into the soil and continues to feed over a long period. Will not harm roots or leaves. Can also be used in transplanting. Best applied to pots when they are dry and need watering.

Starter Solution for Transplanting

for flower and vegetable seedlings, perennials, shrubs, etc. Checks wilting and gives transplants a healthy start for rapid growth.

FORMULA: 13 - 26 - 13

3 Oz. Bottle.	Postpaid	.60¢
3 Bottles,	postpaid	\$1.10

PEAT MOSS

Now packed in 1/2 bushel boxes containing approximately 1/2 bushel; \$1.50 postpaid.

Necessary in the germination of many seeds such as Ilex, Vacciniums and other acid loving plants

	Postpaid
1 Peck Packages.....	.70
3 1/2 " " ".....	1.30

VERMICULITE

Special for seed beds, for cuttings or for mixing in potting soil. It comes in three sized paper bags; the small size will take care of the germination needs of the small grower.

PRICES: 4 qt. bags, 55¢; 1/2 bushel bags, \$1.00.

WOODEN GARDEN STAKES

7/8 inch wide, painted white:

8 inch: \$1.30 per 100; 250 for \$3.00.

1 1/8 inch wide; these make an attractive and cheap garden stake.

12 inch: Each 3¢; 25 for 55¢; 100 for \$2.00.

FERTO-POTS

FERTO-POTS have taken the gardening world by storm. Users highly enthusiastic. Millions sold.



Pots made of rich rotted cow manure in automatic pot machines and kiln dried. No wilt, no set-back; quicker, better results if seed, bulbs, plants, cuttings are started in FERTO-POTS. When transplanted outdoors pot and all goes into the ground. Pots soften up in the moist soil and feed the plants. Excellent results as liners inside clay pots for African Violets and other house plants. FERTO-POTS are a boon to professional growers and home gardeners alike. Shipped prepaid at following prices: (Add 10% for Pacific Coast States).

PRICES: All prepaid by parcel post.
No. 2. Dozen 55¢; 100, \$3.00; 500, \$11.50
No. 2½ Dozen 75¢; 100, \$3.50; 250, \$6.60.
No. 3 Dozen 85¢; 100, \$3.50; 250, \$8.50

WOODEN POT STAKES

3 inch: 90¢ doz; 250 for \$4.00.
Painted stakes 3/8 inch wide; prepaid.
4 inch: 65¢ per 100; 1,000 for \$4.25.
5 inch: 70¢ per 100; 1,000 for \$4.50.
8 inch: \$1.00 per 100; 500 for \$4.75
10 inch: \$1.15 per 100; 250 for \$2.50

COPPER WIRED TREE, SHRUB TAGS:

3½" long, 5/8" wide, for tagging trees and shrubs; painted white.
90¢ per 100; 1,000, for \$6.00.

CYPRESS PLANT BANDS

CYPRESS PLANT BANDS WON'T STEAL YOUR SOIL NITROGEN

Wood veneer bands have a great reputation for doing that. Chances are that you have seen articles in the trade journals saying that many plants appear unhappy in plant bands.

Wood veneer, being thin, decomposes rapidly. While the band is rotting, large amounts of nitrogen are used in the process.

Cypress plant bands won't rot quickly and therefore does not affect the nitrogen in the potting soil that is needed for the small plants. Paper bands react just like the plain wood veneer bands; and the various coated paper bands, being rather water proof, prevent an even watering of your plants. You will not have NITROGEN STARVED plants when you use our **CYPRESS PLANT BAND**. A trial order will convince you.

Prepaid—	Per 100
1¾ inches square by 2½ deep .....	.75
2 inches square by 2½ deep .....	.85
2½ inches square by 3 deep .....	.95
3 inches square by 3 deep	\$1.00
4 inches square by 4 deep	\$1.25

Due to the high postage rate on these bands in case lots, we cannot offer them in the future, except only in the above broken lots.

INSECTICIDES

Du PONT 10% DDT INSECT POWDER

Controls cockroaches, fleas, ants, bed bugs, moths, ticks, carpet beetle and silver fish.

1 Oz. Puffer Cans, Postpaid.....	.25¢
3 Oz. Puffer Cans.....	.50¢

HAMMOND'S SLUG SHOT

Destroys many insects that prey upon house and garden plants.

It is most effective when used as a powder and applied lightly over the infected parts. One application is generally sufficient.

1 lb. Cans.	Postpaid.....	.75¢
3 Cans.	Postpaid.....	\$1.50



JAPANESE AROMATIC GREENS.

Mitsuba, illustrated above, belongs to the Parsley family and this alone should make it a valuable green. The stalks are slender, with greenish leaves, easily blanched to a white color. It is delicious and highly aromatic. **Packets: 25 ¢ Each.**

LUDWIG STRAIN OF AMARYLLIS

We are offering the famous Ludwig Strain of Amaryllis for the first time this year. The importation of these bulbs require special attention at New York and this makes it very costly unless the orders are pooled, therefore we will only be able to deliver them as they arrive; the first lot should be here early in February and the last one in March; it will be necessary to order at once so that proper arrangements can be made.

Keep in mind that the prices quoted are

prepaid prices delivery to your door by parcel post.

	Each.
AMERICAN EXPRESS.	\$3.45
AMERICAN FASHION.	\$3.45
AMERICAN IDOL.	\$5.85

APPLE BLOSSOM.	\$4.00
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Lower petals a lighter shade of Dawn Pink, almost white with a dash of Dawn Pink; stamens white and the throat faintly greenish with dark red ring. Really the best apple-blossom pink in Amaryllis.

BATON ROUGE.	\$3.00
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BOUQUET.	\$4.00
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BLEEDING HEART.	\$3.50
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BRIDESMAID.	\$2.85
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A very good white with a light green tinge in throat. Very attractive.

BRILLIANT.	\$3.00
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CANDY CANE.	\$5.75
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CARUSO.	\$3.50
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CASPER LUDWIG.	\$3.00
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CHAMPION'S REWARD.	\$3.75
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CHERRY QUEEN.	\$3.00
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CRIMSON BEAUTY.	\$3.80
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DAINTINESS.	\$4.00
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A beautiful porcelain-rose with a crimson-rose glow towards center; throat veined with soft green; stamens a porcelain rose.

DELILAH.	\$3.80
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DIAMOND.	\$4.00
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An extra fine geranium-lake red color, bears 3-4 huge nine inch glossy red blooms.

DORIS LILIAN.	\$4.00
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This may safely head the list; the best of carmine-rose varieties.

EARLY WHITE.	\$3.00
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FANTASY.	\$3.40
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Outstanding and hard to describe; a delft-rose with faint light rose stripe on each petal, the tips being almost white; stamens white.

FIDELITY.	\$3.60
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FRANKLIN ROOSEFELT.	\$3.25
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Current red, upper petals having a blood-red reflection; blood-red stamens.

FIVE STAR GENERAL.	\$6.00
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A most outstanding variety and the latest to bloom of all those listed. Blooms up to 10 inches across, a gorgeous signal-red color with a white star in center shading in red streaks on outer edges of white; 70-75 F. temperature best for this; not too much water either; a gem.

HALLEY.	\$3.25
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Lively poppy-red or orange-red with darker stamens; 8 inch blooms.

HELEN.	\$2.90
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HERACLES.	\$3.80
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INVINCIBLE.	\$3.45
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LOVE'S DESIRE.	\$5.00
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Coral-pink of a distinctive shade; 9 inch blooms.

LUDWIG'S DAZZLER.	\$3.90
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LUDWIG'S GOLIATH.	\$5.80
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Giant 11 inch blooms; a brilliant dark oriental-red.

LUDWIG'S MASTERPIECE.	\$4.50
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LUDWIG'S SCARLET.	\$2.90
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LUDWIG'S SPLENDER.	\$3.80
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MAC ARTHUR.	\$3.40
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A dark Dutch vermillion.

MARGARET ROSE.	\$2.90
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MARIA GORETTI.	\$2.90
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MORNING STAR.	\$3.40
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MOTHER'S DAY.	\$2.90
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NIRALIS.	\$2.70
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Pure white; a graceful shape; blooms 4".

ORANGE FIRE.	\$3.40
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ORANGE KING.	\$2.90
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PEACEFULNESS.	\$2.90
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PINK FAVORITE.	\$4.40
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PINK PERFECTION.	\$4.40
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PINKSTERFLOWER.	\$3.75
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Beautiful azalia-pink with a slight poppy-red reflection; apple-green throat changing to camellia-rose; 8 inch blooms.

RAY V. DENSLOW.	\$3.90
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ROSELINDE.	\$2.90
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ROSSINI.	\$3.80
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SALMON JOY.	\$2.85
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SHAKESPEARE.	\$2.95
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SILVER LINING.	\$5.90
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SIREN.	\$3.95
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SNOW QUEEN.	\$3.00
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WHITE GIANT.	\$3.45
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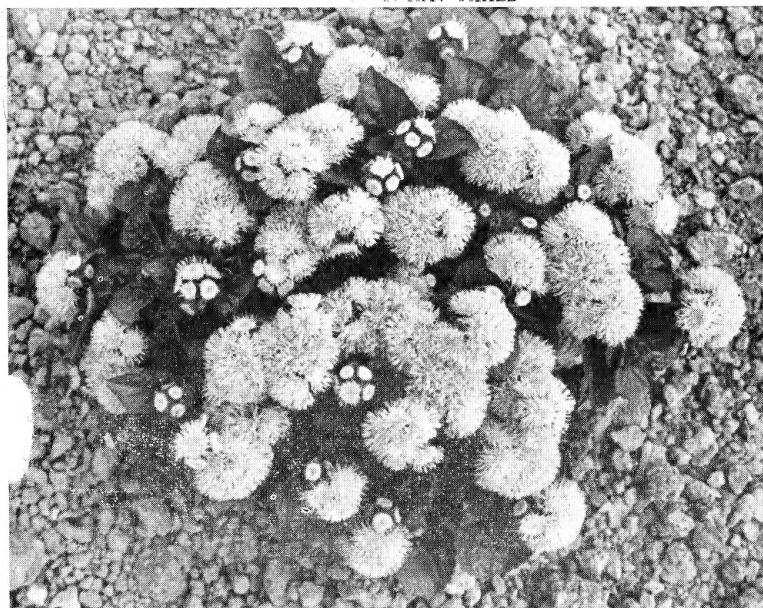
WINTER JOY.	\$4.85
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WYNDHAM HAYWARD.	\$3.75
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A dark oriental-red in a beautiful form; throat a glossy dark blood-red contrasting nicely with the slightly lighter red stamens. 9 inch blooms.



— FAIRY PIXIE



AGERATUM—BLUE MINK

